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NTISUB/C/139-005

LANDSAT

NON-U.S. STANDARD CATALOG

**MAY 1, 1977
THROUGH
MAY 31, 1977**

**GSFC/LN-C/005
GODDARD SPACE FLIGHT CENTER**

GREENBELT, MARYLAND

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

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INTRODUCTION

To provide dissemination of information regarding the availability of Landsat imagery, the Image Processing Facility (IPF), located at the Goddard Space Flight Center, publishes a U. S. and Non-U. S. Standard Catalog on a monthly schedule. These catalogs identify imagery which has been processed and input to the data files during the referenced month. The U. S. Standard Catalog includes imagery covering the continental United States, Alaska and Hawaii; the Non-U. S. Catalog identifies all the remaining coverage. Imagery adjacent to the continental U. S. and Alaska borders will normally appear in the U. S. Standard Catalog. As a supplement to these catalogs, the Landsat imagery of one spectral band is available on 16mm microfilm.

In addition to the routine monthly catalogs, the IPF annually publishes a cumulative U. S. and Non-U. S. Standard Catalog for each satellite, covering a year based on the launch date for that satellite. These catalogs include information on all observations acquired and processed by the facility during that year.

Film products for imagery listed in this catalog are available at a nominal price from all three agencies listed below. In addition, the 16mm microfilm can be purchased from the U. S. Department of the Interior (USDI) EROS Data Center and National Oceanic and Atmospheric Administration (NOAA). Digital tapes can be purchased only from the USDI EROS Data Center.

U. S. Department of Agriculture

Aerial Photography Field Office
2505 Parley's Way
Salt Lake City, Utah 84109

U. S. Department of Commerce
National Oceanic and Atmospheric
Administration

Environment Data Service
Satellite Data Service Branch
D543
World Weather Building
Room 606
Washington, D. C. 20233

U. S. Department of the Interior
Geological Survey

User Services Unit
EROS Data Center
Sioux Falls, South Dakota 57198

Additional Landsat data is acquired, processed, and archived at several other locations throughout the world. The location of these Data Banks are:

Brazil

Instituto de Pesquisas Espaciais
Av. dos Astronautas, 1758
Caixa Postal 515
12.200 - Sao Jose dos Campos
Sao Paulo, Brazil
Attention: Dr. Nelson de Jesus Parada

Iran

Mr. Ali Ghazi
Remote Sensing and Data Collection Division
Plan and Budget Organization
Imperial Government of Iran
80 Sepand Avenue
Tehran, Iran
Attention: User Project Office

Canada

Canada Centre for Remote Sensing
2464 Sheffield Road
Ottawa, Canada
K1A 0Y7
Attention: Dr. L. Morley

Italy

Telespazio
S.P.A. Per le Comunicazioni Spaziali
Corso d'Italia 42-43
Roma 00198, Italy
Attention: Dr. G. Bressanlan

For information concerning data available in these regions, it is suggested that the above data banks be contacted directly at the above addresses.

INDEX

SECTION 1 DESCRIPTION OF STANDARD CATALOG

SECTION 2 DESCRIPTION OF MICROFILM

SECTION 3 CYCLE CHARTS

SECTION 4 LANDSAT 1 COVERAGE

Coverage Maps

Observation ID Listing

Contiguous U. S.

Alaska

Hawaii

Coordinate Listing

Contiguous U. S.

Alaska

Hawaii

SECTION 5 LANDSAT 2 COVERAGE

Coverage Maps

Observation ID Listing

Contiguous U. S.

Alaska

Hawaii

Coordinate Listing

Contiguous U. S.

Alaska

Hawaii

APPENDIX

SECTION 1 — STANDARD CATALOG

1.1 MONTHLY CATALOGS

The coverage sections contained in the monthly U.S. and Non-U.S. Standard Catalogs are divided into three parts. Part 1 (see Para. 1.1,A) consists of annotated maps which graphically depict the geographic areas covered by imagery listed in the current catalog. Part 2 (see Para. 1.1,B) contains a computer generated listing organized by observation identification number (ID) and includes pertinent information about each image. Part 3 (see Para. 1.1,C) provides a computer listing of observations organized by longitude/latitude.

- A. Satellite Coverage Maps. These maps are segregated by cycle and depict the general location of observations listed in the catalog. The format and data content of these maps are slightly different in the U.S. and Non-U.S. catalogs.
1. U.S. Satellite Coverage Maps. Two separate map formats are presented in this catalog. One map outlines the continental U.S. and depicts the estimated cloud cover along each north to south subsatellite path. Each path is identified by actual orbit number and a cross reference, which matches the orbit number to the initial observation ID for that path. The second map provides an enlarged view of Alaska and Hawaii and displays the portion of an orbital pass for which coverage is available. This map does not include cloud cover estimates or orbit numbers.
 2. Non-U.S. Satellite Coverage Map. A world outline map is provided with the portions of an orbital swath for which observations are available graphically displayed. This map is intended solely to inform the user as to whether or not coverage is included in the catalog for his area of interest. It is not intended as a rapid reference to specific observations.
- B. Observation Identification Number (ID) Listing. The data format for the observation ID listing is identical in the U.S. and Non-U.S. Catalogs. Observation ID numbers are listed in a sequential manner from smallest number to largest. Associated with each ID number in the list is pertinent information about that observation. A sample catalog page with a description of each data item is shown in Figure 1-1.

1. Sample Observation ID Format. See Figure 1-1.

① 20 53 APR 04 '75 ② FROM 02/01/75 TO 02/28/75										
④ OBSERVATION ID	⑤ MICROFILM ROLL NO./ POSITION IN ROLL RBV MSS		⑥ DATE ACQUIRED	⑦ CLOUD COVER %	⑧ ORBIT NUMBER	⑨ PRINCIPAL POINT OF IMAGE LAT LONG		⑩ SUN ELEV	⑩ SUN AZIM	⑪ IMAGE QUALITY RBV MSS 123 456 8
1943-16381	00000/0000	1-10034/0565	02/21/75	100	3149	4728N	09815W	25.3	144.8	GGGG
1943-16383	00000/0000	1-10034/0566	02/21/75	100	3149	4603N	09849W	26.3	143.9	GGG
1943-16390	00000/0000	1-10034/0567	02/21/75	100	3149	4433N	09923W	27.2	143.0	1GG
1943-16392	00000/0000	1-10034/0568	02/21/75	70	3149	4311N	09955W	28.2	142.1	GGFF
1943-16395	00000/0000	1-10034/0569	02/21/75	40	3149	4147N	10026W	29.1	141.2	1GGG
1944-16432	00000/0000	1-10034/0606	02/22/75	40	3163	4854N	09903W	24.7	145.5	GGGG
1944-16435	00000/0000	1-10034/0607	02/22/75	90	3163	4730N	09939W	25.6	144.6	1GGG
1944-16441	00000/0000	1-10034/0608	02/22/75	30	3163	4605N	10014W	26.6	143.8	GGGG

③ KEY:
 CLOUD COVER
 • 0 TO 100 = % OF CLOUD COVER
 • *** NO CLOUD DATA AVAILABLE
 IMAGE QUALITY
 • BLANK = BAND NOT PRESENT/REQUESTED
 • G = GOOD P = POOR F = FAIR

Figure 1-1. Observation ID Listing for Standard Catalog

2. Description of Data Items

- ① Date of catalog listing

② Period during which imagery was processed

③ Data quality

④ Observation ID

⑤ RBV and MSS microfilm roll and image position on roll; note: RBV and MSS images for a given observation may be on two different microfilm rolls

⑥ Date of observation

⑦ Estimated percent of cloud cover

⑧ Orbit number

⑨ Latitude and longitude at observation center (degrees and minutes)

⑩ Sun elevation and azimuth at observation center

⑪ Image quality; see key
- 1010

15165

Tens of seconds

Minutes of hour

Hour of day since launch

Day since launch

Satellite number

(1 or 5 = LANDSAT 1,
2 or 6 = LANDSAT 2);
see Appendix for full
explanation

- C. Longitude/Latitude Listing. The data format for the longitude/latitude listing is identical in the U.S. and Non-U.S. Catalogs. This listing contains the same observations as the observation-ID listing but organizes them by coordinates, using image center location information for each observation. Observations in this listing will be sorted first by longitude and, within longitude, by latitude. The longitude/latitude listing is arranged in the following manner:

180-0 degrees East; 90-0 degrees North and 0-90 degrees South
 followed by
 0-180 degrees West; 90-0 degrees North and 0-90 degrees South

This listing is intended to be used as a tool for locating specific coverage, and once a specific observation has been identified, pertinent information about it can be found by referring to the ID listing.

Figure 1-2 below shows a sample catalog page with a description of each data item.

1. Sample Longitude/Latitude Format. See Figure 1-2.

① 20-21 APR 04, 75					② FROM 02:01:75 TO 02:28:75				
③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫
PRINCIPAL PT OF IMAGE LONG. LAT.	OBSERVATION ID	CL CLOUD COVER	QUALITY REV. MSS	PRINCIPAL PT OF IMAGE LONG. LAT.	OBSERVATION ID	CC CLOUD COVER	QUALITY REV. MSS	PRINCIPAL PT OF IMAGE LONG. LAT.	OBSERVATION ID
12350W 3408N	1940-18074	80	G G F	12421W 3855N	1973-18132	70	F F F	12512W 4436N	1925-18230
12352W 4027N	1941-18110	100	G G G	12437W 4801N	1925-18724	90	G G G	12517W 4022N	1924-18181
12352W 4020N	1923-18125	90	F F F	12447N 4147N	1924-18181	80	G F F	12537W 4728N	1926-18275
12401W 4726N	1925-18221	90	G G F	12449W 3736N	1941-18123	90	F F G	12545W 4311N	1925-18211
12416W 4313N	1924-18174	70	F F F	12449W 3729N	1923-18134	70	F F G	12546W 3851N	1924-18190
12421W 3901N	1941-18123	100	F G F	12451W 4652N	1926-18273	90	G G G	12602W 4603N	1926-18282

⑦ KEY
 CLOUD COVER
 0 TO 100 = % OF CLOUD COVER
 ** NO CLOUD DATA AVAILABLE

IMAGE QUALITY
 * BLANK = BAND NOT PRESENT REQUESTED
 G = GOOD P = POOR F = FAIR

Figure 1-2. Coordinate Listing for Standard Catalog

2. Description of Data Items

- | | |
|---|------------------------------------|
| ① Date of catalog listing | ⑤ Estimated percent of cloud cover |
| ② Period during which imagery was processed | ⑥ Image quality; see key |
| ③ Longitude and latitude at observation center
(degrees and minutes) | ⑦ Data quality |
| ④ Observation ID (see Fig. 1-1, Para. 1.1, B, 2) | |

1.2 CUMULATIVE STANDARD CATALOGS

Annually, a cumulative catalog is produced which includes information covering all observations and coordinates acquired and processed by the IPF during that year.

A. Observation ID Listing.

1. Sample Observation ID Format. See Figure 1-1.
2. Description of Data Items. See Paragraph 1.1, B, 2.

B. Coordinate ID Listing. The coordinate ID listing format is expanded to identify observations for which color or digital products have been made.

1. Sample Coordinate ID Format. See Figure 1-3.

⑨		① 15:36 MAR 11, '74	⑤		⑥	⑦	② FROM 07/23/72 TO 07/24/74		⑧	⑩	⑪		⑫			
PRINCIPAL POINT OF IMAGE		OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL		DATE ACQUIRED	CLOUD COVER %	ORBIT NUMBER	SUN ELEV.	SUN AZIM.	IMAGE QUALITY RBV 123	MSS 45678	PRODUCTS B P P B P C C D D				
LONG	LAT		RBV	MSS												
07607W	3734N	1295-15144	00000/0000	10010/1659	05/14/73	20	4114	60.2	122.0		GGGG				M	
07607W	3731N	1259-15150	00000/0000	10010/0088	04/08/73	90	3610	50.7	133.2		GGGG				M	
07607W	3731N	1313-15143	00000/0000	10011/0920	06/01/73	80	4363	52.3	116.7		GGGG				M	
07608W	4438N	1027-15231	00000/0000	1-10001/1498	08/19/72	0	375	50.9	136.9		GGGG		M		M	
07608W	3731N	1331-15142	00000/0000	1-10011/1589	06/19/73	100	4614	62.4	112.8		GGGG					
07608W	3724N	1349-15141	00000/0000	1-10012/1387	07/07/73	10	4865	61.2	112.9		GGGG		M		M	
07609W	4851N	1352-15275	00000/0000	1-10012/1622	07/10/73	60	4907	56.7	133.9		G					
07609W	3144N	1006-15093	1-10001/0377	1-10001/0378	07/29/72	100	82	59.7	109.3		GGG	PPGG				

③ KEY:

CLOUD COVER

● 0 TO 100 = % CLOUD COVER

IMAGE QUALITY

● BLANK = BAND NOT PRESENT/REQUESTED

● G = GOOD P = POOR F = FAIR

PRODUCTS ALREADY MADE

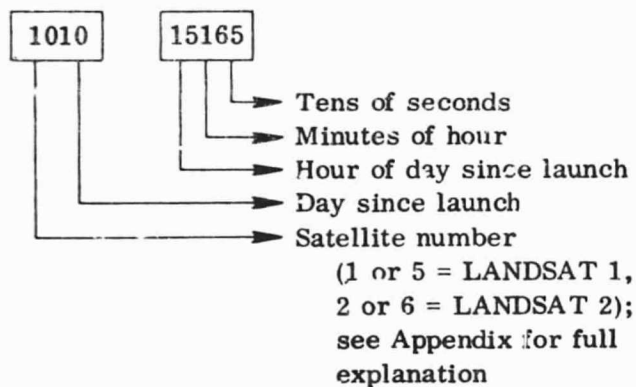
● R = MADE FROM RBV M = MADE FROM MSS

● B = MADE FROM RBV AND MSS

Figure 1-3. Coordinate Listing for Cumulative Standard Catalog

2. Description of Data Items

- ① Date of catalog listing
- ② Period during which imagery was processed
- ③ Data quality
- ④ Observation ID



- ⑤ RBV and MSS microfilm roll and image position on roll; note: RBV and MSS images for a given observation may be on two different microfilm rolls
- ⑥ Date of observation
- ⑦ Estimated percent of cloud cover
- ⑧ Orbit number
- ⑨ Latitude and longitude at observation center (degrees and minutes)
- ⑩ Sun elevation and azimuth at observation center
- ⑪ Image quality; see key
- ⑫ Image/data product availability; see key

2.1 GENERAL

The Image Processing Facility produces a 16 mm microfilm inventory of imagery processed during the referenced month and is organized for convenient use with the Standard Catalog.

As in the case of the Standard Catalog, the microfilm data is divided into U.S. and Non-U.S. segments. Each set of microfilm images is in exact correspondence to a Standard Catalog and can be used in conjunction with the catalog for selecting desired images. A maximum of 1900 images will be contained on one roll of 16 mm x 100 ft microfilm. Because the microfilm images are intended to provide only a summary of the data available, the images are limited to one band each for the RBV and MSS. Although a single observation will produce seven images, in the production of microfilm only the RBV Spectral Band 2 images (0.580 - 0.680 microns) and MSS Spectral Band 2 images (0.6 - 0.7 microns) are reproduced. Each image is a photograph of a 70 mm (-2) image and contains the image identifier and annotation block. See Figure 2-1.

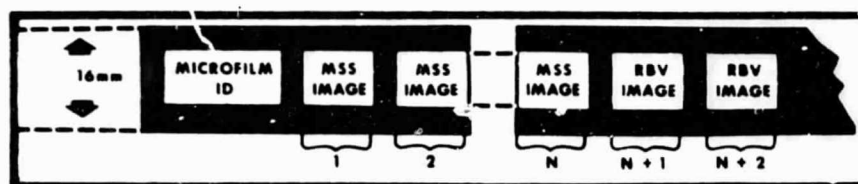


Figure 2-1. Microfilm Format

Microfilm roll numbers contain six digits. The first digit designates the satellite number (blank or 1- = LANDSAT 1, 2- = LANDSAT 2). Example: Roll number 10032 and roll number 1-10034 are both LANDSAT 1 rolls. Roll 2-10032 is a LANDSAT 2 roll. The second digit will be a 1 (for U.S. rolls) or a 2 (for Non-U.S. rolls). The remaining digits are used to number sequentially all microfilm rolls prepared within each group. Example: Roll number 10001 is the first U.S. roll of microfilm produced for LANDSAT 1. Roll number 20004 is the fourth Non-U.S. roll to be produced for LANDSAT 1. The first U.S. roll of microfilm for LANDSAT 2 is number 2-10001.

The microfilm contains two rapid search capabilities to help the user quickly reach the desired scene. They are:

- Code Line Indexing
- Blip Encoding

2.2 CODE LINE INDEXING

The Landsat microfilm images have been annotated with visual code lines to the right of each frame. The visual code lines graduate up the edge of the screen as the film advances and allow the user to advance rapidly to within 20 frames of his desired image. See Figure 2-2.

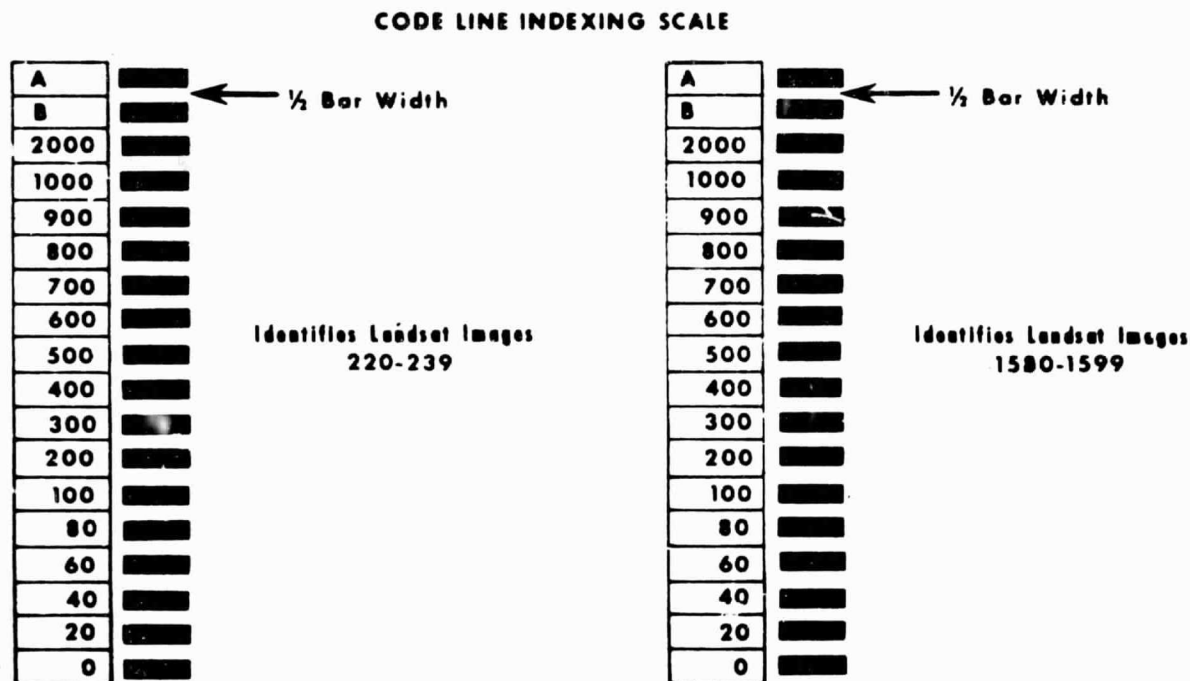


Figure 2-2. Code Line Indexing Scale

To utilize this system, a user must generate a code line indexing bar scale to attach to the face of his viewers. The size and spacing for the bar scale is dependent upon the magnification of his viewer. Landsat imagery is microfilmed at a reduction ratio of 8.5x. To determine the overall length of a scale required for your microfilm reader, multiply 7.4 mm by the enlargement factor of your lens. To determine the bar widths along the bar scale, multiply 0.24 mm by the same factor. A space between each bar should exist that is 1/2 the bar width.

2.3 BLIP ENCODING

The LANDSAT microfilm images have also been annotated with a blip (black spot) at the base of each frame. This type of encoding is designed for use on readers with an electronic sensing and counting capability or an odometer. To use the blip encoding retrieval system, the film will have to be placed in a cartridge. When the cartridge is placed in a reader which contains an odometer or has a keyboard attached, the identification of the desired image is obtained from the Standard Catalog (column 6, Microfilm Position) and either punched on the keyboard or read via the odometer as the film advances. Using a reader configured for rapid search and retrieval, the film advances and the frames (biips) are counted by means of a photosensing light. When the appropriate number has been counted, the reader stops and the desired image is projected on the screen. Using a reader with an odometer requires the user to monitor the odometer as the film advances and stop the advance of the film in the vicinity of the required frame.

SECTION 3 - CYCLE CHARTS
SECTION 3.1 - LANDSAT 1 CYCLES

Cycle	Days Since Launch		Calendar Date		Cycle	Days Since Launch		Calendar Date	
	Begin	End	Begin	End		Begin	End	Begin	End
First 8 days	1	8	24 Jul 72	31 Jul 72	16	279	296	28 Apr 73	15 May 73
1	9	26	1 Aug 72	18 Aug 72	17	297	314	16 May 73	2 Jun 73
2	27	44	19 Aug 72	5 Sep 72	18	315	332	3 Jun 73	20 Jun 73
3	45	62	6 Sep 72	23 Sep 72	19	333	350	21 Jun 73	8 Jul 73
4	63	80	24 Sep 72	11 Oct 72	20	351	368	9 Jul 73	26 Jul 73
5	81	98	12 Oct 72	29 Oct 72	21	369	386	27 Jul 73	13 Aug 73
6	99	116	30 Oct 72	16 Nov 72	22	387	404	14 Aug 73	31 Aug 73
7	117	134	17 Nov 72	4 Dec 72	23	405	422	1 Sep 73	18 Sep 73
8	135	152	5 Dec 72	22 Dec 72	24	423	440	19 Sep 73	6 Oct 73
9	153	170	23 Dec 72	9 Jan 73	25	441	458	7 Oct 73	24 Oct 73
10	171	188	10 Jan 73	27 Jan 73	26	459	476	25 Oct 73	11 Nov 73
11	189	206	28 Jan 73	14 Feb 73	27	477	494	12 Nov 73	29 Nov 73
12	207	224	15 Feb 73	4 Mar 73	28	495	512	30 Nov 73	17 Dec 73
13	225	242	5 Mar 73	22 Mar 73	29	513	530	18 Dec 73	4 Jan 74
14	243	260	23 Mar 73	9 Apr 73	30	531	548	5 Jan 74	22 Jan 74
15	261	278	10 Apr 73	27 Apr 73	31	549	566	23 Jan 74	9 Feb 74

SECTION 3.1 — LANDSAT 1 CYCLES

Cycle	Days Since Launch		Calendar Date		Cycle	Days Since Launch		Calendar Date	
	Begin	End	Begin	End		Begin	End	Begin	End
32	567	584	10 Feb 74	27 Feb 74	48	855	872	25 Nov 74	12 Dec 74
33	585	602	28 Feb 74	17 Mar 74	49	873	890	13 Dec 74	30 Dec 74
34	603	620	18 Mar 74	4 Apr 74	50	891	908	31 Dec 74	17 Jan 75
35	621	638	5 Apr 74	22 Apr 74	51	909	926	18 Jan 75	4 Feb 75
36	639	656	23 Apr 74	11 May 74	52	927	944	5 Feb 75	22 Feb 75
37	657	674	12 May 74	28 May 74	53	945	962	23 Feb 75	12 Mar 75
38	675	692	29 May 74	15 Jun 74	54	963	980	13 Mar 75	30 Mar 75
39	693	710	16 Jun 74	3 Jul 74	55	981	998	31 Mar 75	17 Apr 75
40	711	728	4 Jul 74	21 Jul 74	56	999	1016	18 Apr 75	5 May 75
41	729	746	22 Jul 74	8 Aug 74	57	1017	1034	6 May 75	23 May 75
42	747	764	9 Aug 74	26 Aug 74	58	1035	1052	24 May 75	10 Jun 75
43	765	782	27 Aug 74	13 Sep 74	59	1053	1070	11 Jun 75	28 Jun 75
44	783	800	14 Sep 74	1 Oct 74	60	1071	1088	29 Jun 75	16 Jul 75
45	801	818	2 Oct 74	19 Oct 74	61	1089	1106	17 Jul 75	3 Aug 75
46	819	836	20 Oct 74	6 Nov 74	62	1107	1124	4 Aug 75	21 Aug 75
47	837	854	7 Nov 74	24 Nov 74	63	1125	1142	22 Aug 75	8 Sep 75

SECTION 3.1 — LANDSAT 1 CYCLES

Cycle	Days Since Launch		Calendar Date		Cycle	Days Since Launch		Calendar Date	
	Begin	End	Begin	End		Begin	End	Begin	End
64	1143	1160	9 Sep 75	26 Sep 75	80	1431	1448	23 Jun 76	10 Jul 76
65	1161	1178	27 Sep 75	14 Oct 75	81	1449	1466	11 Jul 76	28 Jul 76
66	1179	1196	15 Oct 75	1 Nov 75	82	1467	1484	29 Jul 76	15 Aug 76
67	1197	1214	2 Nov 75	19 Nov 75	83	1485	1502	16 Aug 76	2 Sep 76
68	1215	1232	20 Nov 75	7 Dec 75	84	1503	1520	3 Sep 76	20 Sep 76
69	1233	1250	8 Dec 75	25 Dec 75	85	1521	1538	21 Sep 76	8 Oct 76
70	1251	1268	26 Dec 75	12 Jan 76	86	1539	1556	9 Oct 76	26 Oct 76
71	1269	1286	13 Jan 76	30 Jan 76	87	1557	1574	27 Oct 76	13 Nov 76
72	1287	1304	31 Jan 76	17 Feb 76	88	1575	1592	14 Nov 76	1 Dec 76
73	1305	1322	18 Feb 76	6 Mar 76	89	1593	1610	2 Dec 76	19 Dec 76
74	1323	1340	7 Mar 76	24 Mar 76	90	1611	1628	20 Dec 76	6 Jan 77
75	1341	1358	25 Mar 76	11 Apr 76	91	1629	1646	7 Jan 77	24 Jan 77
76	1359	1376	12 Apr 76	29 Apr 76	92	1647	1664	25 Jan 77	11 Feb 77
77	1377	1394	30 Apr 76	17 May 76	93	1665	1682	12 Feb 77	1 Mar 77
78	1395	1412	18 May 76	4 Jun 76	94	1683	1700	2 Mar 77	19 Mar 77
79	1413	1430	5 Jun 76	22 Jun 76	95	1701	1718	20 Mar 77	6 Apr 77

SECTION 3.2 — LANDSAT 2 CYCLES

Cycle	Days Since Launch		Calendar Date		Cycle	Days Since Launch		Calendar Date	
	Begin	End	Begin	End		Begin	End	Begin	End
First 22 days	1	22	22 Jan 75	13 Feb 75	19	347	364	4 Jan 76	21 Jan 76
1	23	40	14 Feb 75	3 Mar 75	20	365	382	22 Jan 76	8 Feb 76
2	41	58	4 Mar 75	21 Mar 75	21	383	400	9 Feb 76	26 Feb 76
3	59	76	22 Mar 75	8 Apr 75	22	401	418	27 Feb 76	15 Mar 76
4	77	94	9 Apr 75	26 Apr 75	23	419	436	16 Mar 76	2 Apr 76
5	95	112	27 Apr 75	14 May 75	24	437	454	3 Apr 76	20 Apr 76
6	113	130	15 May 75	1 Jun 75	25	455	472	21 Apr 76	8 May 76
7	131	148	2 Jun 75	19 Jun 75	26	473	490	9 May 76	26 May 76
8	149	188	20 Jun 75	7 Jul 75	27	491	508	27 May 76	13 Jun 76
9	167	184	8 Jul 75	25 Jul 75	28	509	526	14 Jun 76	1 Jul 76
10	185	202	26 Jul 75	12 Aug 75	29	527	544	2 Jul 76	19 Jul 76
11	203	220	13 Aug 75	30 Aug 75	30	545	562	20 Jul 76	6 Aug 76
12	221	238	31 Aug 75	17 Sep 75	31	563	580	7 Aug 76	24 Aug 76
13	239	256	18 Sep 75	5 Oct 75	32	581	598	25 Aug 76	11 Sep 76
14	257	274	6 Oct 75	23 Oct 75	33	599	616	12 Sep 76	29 Sep 76
15	275	292	24 Oct 75	10 Nov 75	34	617	634	30 Sep 76	17 Oct 76
16	293	310	11 Nov 75	28 Nov 75	35	635	652	18 Oct 76	4 Nov 76
17	311	328	29 Nov 75	16 Dec 75	36	653	670	5 Nov 76	22 Nov 76
18	329	346	17 Dec 75	3 Jan 76	37	671	688	23 Nov 76	10 Dec 76

SECTION 4
LANDSAT 1 COVERAGE

0015

LANDSAT 1 OBSERVATION ID LISTING

22140 JUN 14, '77

LANDSAT-1
OBSERVATION ID LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0016

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV MSS 123 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
5736-16023	00000/0000 1-20078/0001	04/24/77	20	4207	5557N 09957W	37.7	129.6	GGG			37	21
5736-16030	00000/0000 1-20078/0002	04/24/77	30	4207	5432N 10045W	38.3	128.0	GGG			37	22
5736-16032	00000/0000 1-20078/0003	04/24/77	10	4207	5309N 10131W	38.8	126.4	GGG			37	23
5736-16035	00000/0000 1-20078/0004	04/24/77	0	4207	5145N 10214W	39.4	124.8	GGG			37	24
5736-16041	00000/0000 1-20078/0005	04/24/77	0	4207	5021N 10255W	39.9	123.3	GFG			37	25
5738-09200	00000/0000 1-20078/0006	04/26/77	40	4231	5846N 00209E	37.0	132.7	GGG			218	19
5738-09202	00000/0000 1-20078/0007	04/26/77	70	4231	5722N 00114E	37.6	131.0	GGG			218	20
5738-09205	00000/0000 1-20078/0008	04/26/77	90	4231	5557N 00024E	38.2	129.4	GFG			218	21
5738-09211	00000/0000 1-20078/0009	04/26/77	100	4231	5433N 00022W	38.8	127.7	FFG			218	22
5738-09214	00000/0000 1-20078/0010	04/26/77	90	4231	5310N 00106W	39.3	126.1	FGE			218	23
5739-09260	00000/0000 1-20078/0012	04/27/77	50	4245	5722N 00012W	37.9	130.8	GGG			219	20
5739-09263	00000/0000 1-20078/0013	04/27/77	40	4245	5556N 00101W	38.5	129.2	FGE			219	21
5739-09265	00000/0000 1-20078/0014	04/27/77	40	4245	5431N 00149W	39.1	127.5	GGG			219	22
5739-09272	00000/0000 1-20078/0015	04/27/77	30	4245	5306N 00233W	39.6	125.9	GGG			219	23
5740-09311	00000/0000 1-20078/0016	04/28/77	60	4259	5846N 00044W	37.6	132.4	GGG			220	19
5740-09314	00000/0000 1-20078/0017	04/28/77	90	4259	5722N 00138W	38.2	130.7	GGG			220	20
5740-09320	00000/0000 1-20078/0018	04/28/77	90	4259	5559N 00228W	38.8	129.1	GGG			220	21
5740-09323	00000/0000 1-20078/0019	04/28/77	60	4259	5435N 00316W	39.4	127.4	GGG			220	22
5740-09325	00000/0000 1-20078/0020	04/28/77	50	4259	5311N 00359W	39.9	125.8	GGG			220	23
5742-09423	00000/0000 1-20078/0021	04/30/77	30	4287	5846N 00338W	38.2	132.1	GGG			222	19
5742-09430	00000/0000 1-20078/0022	04/30/77	50	4287	5723N 00432W	38.8	130.4	GGG			222	20
5744-16492	00000/0000 1-20078/0023	05/02/77	50	4319	5070N 11422W	42.0	121.5	GGE			45	25
5744-20091	00000/0000 1-20078/0024	05/02/77	30	4321	7210N 14620W	31.8	153.6	GGG			82	9
5745-20145	00000/0000 1-20078/0025	05/03/77	90	4335	7210N 14748W	32.1	153.6	GGG			83	9
5750-17284	00000/0000 1-20078/0011	05/08/77	20	4403	4150N 12624W	45.2	109.8	GGG			51	31
5751-17303	00000/0000 1-20078/0026	05/09/77	70	4417	4440N 12647W	44.9	113.0	GGG			52	29
5751-17310	00000/0000 1-20078/0027	05/09/77	70	4417	4314N 12719W	45.2	111.2	GGG			52	30
5752-14083	00000/0000 1-20078/0028	05/10/77	30	4429	4855N 07452W	44.2	118.0	FGE			17	26
5755-19271	00000/0000 1-20078/0029	05/13/77	80	4474	7434N 13048W	33.1	159.8	GGG			75	7
5755-19274	00000/0000 1-20078/0030	05/13/77	90	4474	7322N 13349W	33.9	156.2	GGG			75	8
5755-19280	00000/0000 1-20078/0031	05/13/77	70	4474	7207N 13625W	34.7	152.9	GGG			75	9
5755-19283	00000/0000 1-20078/0032	05/13/77	90	4474	7052N 13842W	35.5	150.0	GGG			75	10
5758-16310	00000/0000 1-20078/0034	05/16/77	10	4514	3021N 11536W	46.3	93.6	GGG			41	39
5758-19480	00000/0000 1-20078/0033	05/16/77	30	4516	7212N 14044W	35.4	152.8	GGG			78	9

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANKS=BAND NOT AVAILABLE, G=GOOD, P=POOR, F=FAIR.
 MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

LANDSAT - 1
COORDINATE LISTING

22140 JDN 14,177

LANDSAT-1
COORDINATE LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0018

PRINCIPAL PT. OF IMAGE	LONG	LAT	OBSERVATION ID	CC %	QUALITY RBV MSS 12345678	ORBIT PATH NUMBER	FRAME ROW NUMBER	PRINCIPAL PT. OF IMAGE	LONG	LAT	OBSERVATION ID	CC %	QUALITY RBV MSS 12345678	ORBIT PATH NUMBER	FRAME ROW NUMBER
00209E	8846N	5738-09200	40	GGG	21A	19	09957W	5557N	5736-16023	20	GGG	37	21		
00114E	5722N	5738-09202	70	GGG	21A	20	10045W	5432N	5736-16030	30	GGG	37	22		
00024E	5557N	5738-09205	90	GFG	21A	21	10131W	5309N	5736-16032	10	GGG	37	23		
00012W	5722N	5739-09260	50	GGG	21A	20	10214W	5145N	5736-16035	0	GGG	37	24		
00022W	5433N	5738-09211	100	FFG	21A	22	10255W	5021N	5736-16041	0	GFG	37	25		
00044W	5846N	5740-09311	60	GGG	220	19	11422W	5020N	5744-16492	50	GFG	45	25		
00101W	5556N	5739-09263	40	FFG	21A	21	11536W	3021N	5758-16310	10	GGG	41	39		
00106W	5310N	5738-09214	90	GFG	21A	23	12624W	4150N	5750-17254	20	GGG	51	31		
00138W	5722N	5740-09314	90	GGG	220	20	12647W	4480N	5751-17303	70	GGG	52	29		
00149W	5431N	5739-09265	40	GGG	21A	22	12719W	4314N	5751-17310	70	GGG	52	30		
00228W	5559N	5740-09320	90	GGG	220	21	13048W	7434N	5755-19271	80	GGG	75	7		
00233W	5306N	5739-09272	30	GGG	21A	23	13349W	7322N	5755-19274	90	GGG	75	8		
00316W	5435N	5740-09323	60	GGG	220	22	13625W	7207N	5755-19280	70	GGG	75	9		
00338W	5846N	5742-09423	30	GGG	222	19	13842W	7052N	5755-19283	90	GGG	75	10		
00359W	5311N	5740-09325	50	GGG	220	23	14044W	7212N	5758-19450	30	GGG	78	9		
00432W	5723N	5742-09430	50	GGG	228	20	14620W	7210N	5744-20091	30	GGG	82	9		
07452W	4855N	5752-14083	30	GFG	17	26	14743W	7210N	5745-20145	90	GGG	83	9		

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
IMAGE QUALITY BLANKS=BAND NOT AVAILABLE. G = GOOD. P = POOR. F = FAIR.

SECTION 5
LANDSAT 2 COVERAGE

LANDSAT 2
OBSERVATION ID LISTING

22:07 JUN 27, 1977

LANDSAT-2
OBSERVATION ID LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0023

OBSERVATION ID	MICROFILM POSITION R3V	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT LONG	SUN ELEV.	SUN AZIM.	IMAGE QUAL RBY MSS 123 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2784-06500	00000/0000	2-20043/1080	03/16/77	10	926	3846N	04325E	37.6	131.9	GGGG		183	33
2784-08273	00000/0000	2-20043/1081	03/16/77	90	927	5826N	02636E	25.7	148.0	GGFG		201	19
2784-08275	00000/0000	2-20043/1082	03/16/77	90	927	5703N	02543E	26.6	146.7	GGGG		201	20
2784-08282	00000/0000	2-20043/1083	03/16/77	80	927	5540N	02453E	27.6	145.6	GGGG		201	21
2784-08284	00000/0000	2-20043/1084	03/16/77	70	927	5416N	02406E	28.5	144.4	GGGG		201	22
2784-08291	00000/0000	2-20043/1085	03/16/77	70	927	5252N	02321E	29.4	143.3	GGGG		201	23
2784-08293	00000/0000	2-20043/1086	03/16/77	40	927	5128N	02239E	30.3	142.1	GGGG		201	24
2784-08300	00000/0000	2-20043/1087	03/16/77	50	927	5003N	02159E	31.2	141.0	GGGG		201	25
2784-08302	00000/0000	2-20043/1088	03/16/77	20	927	4839N	02121E	32.0	139.9	GGGG		201	26
2785-06520	00000/0000	2-20043/1089	03/17/77	50	940	5131N	04703E	30.6	142.1	GGGG		184	24
2785-06522	00000/0000	2-20043/1090	03/17/77	90	940	5006N	04624E	31.5	140.9	GGGG		184	25
2785-06525	00000/0000	2-20043/1091	03/17/77	50	940	4841N	04546E	32.4	139.8	GGGG		184	26
2785-08331	00000/0000	2-20043/1092	03/17/77	100	941	5828N	02512E	26.1	147.9	FFFG		202	19
2785-08333	00000/0000	2-20043/1093	03/17/77	90	941	5705N	02419E	27.0	146.7	FFFF		202	20
2785-08340	00000/0000	2-20043/1094	03/17/77	80	941	5542N	02329E	27.9	145.5	GGGG		202	21
2785-08342	00000/0000	2-20043/1095	03/17/77	50	941	5418N	02241E	28.9	144.3	PFPP		202	22
2786-06571	00000/0000	2-20043/0001	03/18/77	50	954	5255N	04622E	30.1	143.1	FFG		185	23
2786-06574	00000/0000	2-20043/0002	03/18/77	40	954	5132N	04530E	31.0	142.0	GGGG		185	24
2786-06580	00000/0000	2-20043/0003	03/18/77	40	954	5008N	04459E	31.9	140.8	FFFG		185	25
2786-06583	00000/0000	2-20043/0004	03/18/77	80	954	4843N	04420E	32.7	139.7	GPFG		185	26
2786-08391	00000/0000	2-20043/0005	03/18/77	90	955	5703N	02250E	27.4	146.6	PPFG		203	20
2786-08394	00000/0000	2-20043/0006	03/18/77	90	955	5539N	02201E	28.4	145.4	FFFG		203	21
2786-08400	00000/0000	2-20043/0007	03/18/77	90	955	5416N	02113E	29.3	144.2	FFFG		203	22
2787-07023	00000/0000	2-20043/0009	03/19/77	90	968	5418N	04538E	29.6	144.2	GG		186	22
2787-07025	00000/0000	2-20043/0010	03/19/77	100	968	5254N	04453E	30.5	143.0	GGGG		186	23
2787-07032	00000/0000	2-20043/0011	03/19/77	80	968	5130N	04411E	31.4	141.8	GGGG		186	24
2787-07034	00000/0000	2-20043/0012	03/19/77	100	968	5006N	04331E	32.3	140.7	GGGG		186	25
2787-08450	00000/0000	2-20043/0008	03/19/77	80	969	5704N	02125E	27.8	146.5	GGFG		204	20
2787-08452	00000/0000	2-20043/0013	03/19/77	30	969	5541N	02034E	28.7	145.3	FFFG		204	21
2787-08455	00000/0000	2-20043/0014	03/19/77	30	969	5417N	01947E	29.6	144.1	GGGG		204	22
2787-08461	00000/0000	2-20043/0015	03/19/77	10	969	5253N	01903E	30.5	143.0	GGFG		204	23
2788-07075	00000/0000	2-20043/0016	03/20/77	90	982	5543N	04459E	29.1	145.3	GGGG		187	21
2788-07081	00000/0000	2-20043/0017	03/20/77	90	982	5420N	04412E	30.0	144.1	GGFG		187	22
2788-07084	00000/0000	2-20043/0018	03/20/77	100	982	5256N	04327E	30.9	142.9	GGGG		187	23
2788-07090	00000/0000	2-20043/0019	03/20/77	100	982	5131N	04245E	31.8	141.7	GGGG		187	24
2788-07093	00000/0000	2-20043/0020	03/20/77	90	982	5007N	04205E	32.6	140.6	GGGG		187	25

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANKS, BAND NOT AVAILABLE, G=GOOD, P=POOR, F=FAIR,
 MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

22107 JUN 27, 177

LANDSAT-2
OBSERVATION ID LISTING
FOR NNN=US
FROM 05/01/77 TO 05/31/77

PAGE 0024

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT LONG	SUN ELEV.	SUN AZIM.	IMAGE=QUAL RBV MSS	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME RBW NUMBER
2789-07130	00000/0000 2-20043/0021	03/21/77	90	996	5705N 04421E	28.6	146.4	FFFF			188	20
2789-07133	00000/0000 2-20043/0022	03/21/77	90	996	5541N 04330E	29.5	145.2	GFFG			188	21
2789-07135	00000/0000 2-20043/0023	03/21/77	90	996	5417N 04243E	30.4	144.0	FGFG			188	22
2789-07142	00000/0000 2-20043/0024	03/21/77	90	996	5253N 04158E	31.3	142.8	GFFF			188	23
2789-07144	00000/0000 2-20043/0025	03/21/77	90	996	5128N 04116E	32.2	141.6	GGFG			188	24
2790-07184	00000/0000 2-20043/0026	03/22/77	90	1010	5705N 04256E	29.0	146.4	GGGG			189	20
2790-07191	00000/0000 2-20043/0027	03/22/77	90	1010	5542N 04206E	29.9	145.1	GGGG			189	21
2790-07193	00000/0000 2-20043/0028	03/22/77	70	1010	5418N 04119E	30.8	143.9	GGGF			189	22
2790-07200	00000/0000 2-20043/0029	03/22/77	90	1010	5254N 04035E	31.7	142.7	GGGF			189	23
2790-07202	00000/0000 2-20043/0030	03/22/77	90	1010	5130N 03953E	32.6	141.5	GGGG			189	24
2790-07205	00000/0000 2-20043/0031	03/22/77	90	1010	5006N 03914E	33.4	140.3	GGGG			189	25
2791-07251	00000/0000 2-20043/0105	03/23/77	70	1024	5421N 03953E	31.2	143.8	G			190	22
2791-07254	00000/0000 2-20043/0106	03/23/77	30	1024	5257N 03909E	32.1	142.6	FGGF			190	23
2791-07260	00000/0000 2-20043/0107	03/23/77	30	1024	5133N 03827E	32.9	141.4	FGGG			190	24
2791-07263	00000/0000 2-20043/0108	03/23/77	30	1024	5009N 03747E	33.8	140.2	FFGG			190	25
2791-07265	00000/0000 2-20043/0109	03/23/77	90	1024	4844N 03709E	34.6	139.0	GFGE			190	26
2792-07294	00000/0000 2-20043/0110	03/24/77	0	1038	5829N 04057E	28.8	147.5	GGFG			191	19
2792-07301	00000/0000 2-20043/0111	03/24/77	10	1038	5705N 04004E	29.8	146.2	GFFG			191	20
2792-07303	00000/0000 2-20043/0112	03/24/77	40	1038	5542N 03914E	30.7	145.0	GGGG			191	21
2792-07310	00000/0000 2-20043/0113	03/24/77	90	1038	5419N 03826E	31.6	143.7	GGGF			191	22
2792-07312	00000/0000 2-20043/0114	03/24/77	90	1038	5255N 03742E	32.5	142.5	GGGF			191	23
2792-07315	00000/0000 2-20043/0115	03/24/77	90	1038	5131N 03659E	33.3	141.3	FGGF			191	24
2792-07321	00000/0000 2-20043/0116	03/24/77	90	1038	5007N 03619E	34.2	140.1	GGGG			191	25
2792-07324	00000/0000 2-20043/0117	03/24/77	90	1038	4842N 03541E	35.0	138.8	GGFG			191	26
2793-07352	00000/0000 2-20043/0118	03/25/77	10	1052	5830N 03932E	29.2	147.5	GGGG			192	19
2793-07355	00000/0000 2-20043/0119	03/25/77	0	1052	5707N 03838E	30.1	146.2	GGGG			192	20
2793-07361	00000/0000 2-20043/0120	03/25/77	10	1052	5543N 03748E	31.0	144.9	GGGG			192	21
2793-07364	00000/0000 2-20043/0121	03/25/77	10	1052	5420N 03701E	32.0	143.6	FGGG			192	22
2793-07370	00000/0000 2-20043/0122	03/25/77	10	1052	5256N 03616E	32.8	142.4	GGGG			192	23
2793-07373	00000/0000 2-20043/0123	03/25/77	0	1052	5132N 03534E	33.7	141.2	GGGG			192	24
2793-07375	00000/0000 2-20043/0124	03/25/77	10	1052	5008N 03454E	34.6	139.9	GGGG			192	25
2794-07404	00000/0000 2-20043/0125	03/26/77	90	1066	5954N 03903E	28.6	148.8	FPPF			193	18
2794-07410	00000/0000 2-20043/0126	03/26/77	90	1066	5832N 03806E	29.6	147.4	FFGF			193	19
2794-07413	00000/0000 2-20043/0127	03/26/77	90	1066	5709N 03713E	30.5	146.1	GGFG			193	20
2794-07415	00000/0000 2-20043/0128	03/26/77	90	1066	5545N 03623E	31.4	144.8	GGGG			193	21
2797-07572	00000/0000 2-20043/0032	03/29/77	90	1108	6116N 03547E	28.9	150.1	GGGG			196	17

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANKS=BAND NOT AVAILABLE, G=GOOD, P=POOR, F=FAIR.
 MSS DATA MODE (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN (BLANK)=LOW GAIN, H=HIGH GAIN

22107 JUN 27, 1977

LANDSAT-2
OBSERVATION ID LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0025

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV MSS 123 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2797-07574	00000/0000	2-20043/0033	03/29/77	100	1108	5954N	03445E	29.8	148.7	FFFF		196	18
2797-07581	00000/0000	2-20043/0034	03/29/77	100	1108	5831N	03349E	30.8	147.3	PGGG		196	19
2797-07583	00000/0000	2-20043/0035	03/29/77	100	1108	5707N	03255E	31.7	145.9	FFFF		196	20
2797-07590	00000/0000	2-20043/0036	03/29/77	90	1108	5544N	03205E	32.6	144.6	FGGG		196	21
2797-07592	00000/0000	2-20043/0037	03/29/77	50	1108	5421N	03118E	33.5	143.3	FGGG		196	22
2797-07595	00000/0000	2-20043/0038	03/29/77	20	1108	5257N	03034E	34.4	142.0	PGGG		196	23
2797-08001	00000/0000	2-20043/0039	03/29/77	20	1108	5132N	02952E	35.3	140.7	GGGG		196	24
2797-08004	00000/0000	2-20043/0040	03/29/77	30	1108	5008N	02912E	36.1	139.4	FGGG		196	25
2797-08010	00000/0000	2-20043/0041	03/29/77	30	1108	4843N	02834E	36.9	138.2	FGGG		196	26
2802-06491	00000/0000	2-20043/0042	04/03/77	0	1177	3850N	04324E	43.9	127.6	FFFF		183	33
2804-06562	00000/0000	2-20043/0043	04/05/77	10	1205	5300N	04622E	37.0	141.3	GGGG		185	23
2804-06564	00000/0000	2-20043/0044	04/05/77	0	1205	5136N	04540E	37.9	139.9	GGGG		185	24
2804-06571	00000/0000	2-20043/0045	04/05/77	0	1205	5011N	04500E	38.7	138.6	GGGG		185	25
2804-06573	00000/0000	2-20043/0046	04/05/77	0	1205	4846N	04422E	39.5	137.2	GGGG		185	26
2804-08385	00000/0000	2-20043/0047	04/05/77	20	1206	5544N	02200E	35.3	144.0	GGGG		203	21
2804-08391	00000/0000	2-20043/0048	04/05/77	30	1206	5419N	02114E	36.2	142.6	FGGG		203	22
2805-07014	00000/0000	2-20043/0089	04/06/77	100	1219	5424N	04539E	36.5	142.6	FGGG		186	22
2805-07020	00000/0000	2-20043/0090	04/06/77	100	1219	5301N	04454E	37.4	141.2	FGGG		186	23
2805-07023	00000/0000	2-20043/0091	04/06/77	90	1219	5136N	04412E	38.2	139.8	FGGG		186	24
2805-07025	00000/0000	2-20043/0092	04/06/77	80	1219	5012N	04332E	39.0	138.4	GGGG		186	25
2805-08440	00000/0000	2-20043/0093	04/06/77	90	1220	5711N	02127E	34.8	145.4	FGGG		204	20
2805-08443	00000/0000	2-20043/0094	04/06/77	90	1220	5548N	02037E	35.7	144.0	GGGG		204	21
2812-04152	00000/0000	2-20043/0129	04/13/77	70	1315	5301N	08631E	39.9	140.4	GGGG		157	23
2812-04154	00000/0000	2-20043/0130	04/13/77	10	1315	5138N	08549E	40.7	138.9	GGGG		157	24
2812-04161	00000/0000	2-20043/0131	04/13/77	10	1315	5013N	08508E	41.5	137.4	GGGG		157	25
2812-04163	00000/0000	2-20043/0132	04/13/77	0	1315	4847N	08430E	42.3	135.9	GGGG		157	26
2812-04170	00000/0000	2-20043/0133	04/13/77	0	1315	4722N	08354E	43.1	134.4	GGGG		157	27
2812-04172	00000/0000	2-20043/0134	04/13/77	0	1315	4558N	08319E	43.8	132.9	GGGG		157	28
2812-04175	00000/0000	2-20043/0135	04/13/77	10	1315	4433N	08246E	44.5	131.3	GGGG		157	29
2812-04181	00000/0000	2-20043/0136	04/13/77	10	1315	4308N	08213E	45.2	129.8	GGGG		157	30
2812-04184	00000/0000	2-20043/0137	04/13/77	10	1315	4143N	08143E	45.9	128.2	GGGG		157	31
2812-04190	00000/0000	2-20043/0138	04/13/77	0	1315	4018N	08113E	46.5	126.5	GGGG		157	32
2812-04193	00000/0000	2-20043/0139	04/13/77	10	1315	3852N	08044E	47.1	124.9	FFFF		157	33
2812-04195	00000/0000	2-20043/0140	04/13/77	10	1315	3726N	08016E	47.6	123.2	GGGG		157	34
2812-04202	00000/0000	2-20043/0141	04/13/77	10	1315	3600N	07949E	48.2	121.5	GGGG		157	35
2812-04204	00000/0000	2-20043/0142	04/13/77	0	1315	3435N	07923E	48.7	119.7	GGGG		157	36

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANKS=BAND NOT AVAILABLE, G=GOOD, P=POOR, F=FAIR,
 MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

22:07 JUN 27, 1977

LANDSAT-2
OBSERVATION ID LISTING
FOR NNN-US
FROM 05/01/77 TO 05/31/77

PAGE 0026

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV MSS 123 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2812-04211	00000/0000	2-20043/0143	04/13/77	0	1315	3309N	07857E	49.1	118.0	GGGG		157	37
2812-04213	00000/0000	2-20043/0144	04/13/77	0	1315	3143N	07833E	49.5	116.2	GGGG		157	38
2812-04220	00000/0000	2-20043/0145	04/13/77	0	1315	3017N	07808E	49.9	114.4	GGGG		157	39
2812-04222	00000/0000	2-20043/0146	04/13/77	0	1315	2851N	07744E	50.2	112.5	GGGG		157	40
2812-04225	00000/0000	2-20043/0147	04/13/77	0	1315	2725N	07720E	50.5	110.6	GGGG		157	41
2812-04231	00000/0000	2-20043/0148	04/13/77	0	1315	2559N	07657E	50.8	108.8	GGGG		157	42
2812-04234	00000/0000	2-20043/0149	04/13/77	0	1315	2433N	07634E	51.0	106.9	GGGG		157	43
2812-04240	00000/0000	2-20043/0150	04/13/77	10	1315	2307N	07612E	51.1	105.0	GGGG		157	44
2812-04243	00000/0000	2-20043/0151	04/13/77	10	1315	2141N	07550E	51.2	103.1	GGGG		157	45
2812-04245	00000/0000	2-20043/0152	04/13/77	10	1315	2015N	07529E	51.3	101.1	GGGG		157	46
2812-04252	00000/0000	2-20043/0153	04/13/77	0	1315	1848N	07507E	51.3	99.2	GGGF		157	47
2812-04254	00000/0000	2-20043/0154	04/13/77	0	1315	1721N	07445E	51.3	97.3	FGFF		157	48
2812-04261	00000/0000	2-20043/0155	04/13/77	10	1315	1555N	07424E	51.2	95.4	GGGG		157	49
2812-04263	00000/0000	2-20043/0156	04/13/77	10	1315	1428N	07403E	51.1	93.6	GGGG		157	50
2812-05581	00000/0000	2-20043/0157	04/13/77	90	1316	5425N	06129E	39.0	141.9	GGGG		175	22
2812-05583	00000/0000	2-20043/0158	04/13/77	70	1316	5300N	06044E	39.9	140.4	GGGG		175	23
2812-05590	00000/0000	2-20043/0159	04/13/77	30	1316	5137N	06002E	40.7	138.9	FFFF		175	24
2812-05592	00000/0000	2-20043/0160	04/13/77	10	1316	5012N	05922E	41.6	137.4	GGGG		175	25
2812-05595	00000/0000	2-20043/0161	04/13/77	0	1316	4848N	05844E	42.3	135.9	FGGF		175	26
2812-06001	00000/0000	2-20043/0162	04/13/77	0	1316	4723N	05808E	43.1	134.4	GGGG		175	27
2812-06004	00000/0000	2-20043/0163	04/13/77	0	1316	4559N	05734E	43.8	132.9	GGGG		175	28
2812-06010	00000/0000	2-20043/0164	04/13/77	10	1316	4434N	05700E	44.5	131.3	GGGG		175	29
2812-06013	00000/0000	2-20043/0165	04/13/77	10	1316	4308N	05627E	45.2	129.7	GGGG		175	30
2812-06015	00000/0000	2-20043/0166	04/13/77	10	1316	4142N	05555E	45.9	128.1	GGGG		175	31
2812-06022	00000/0000	2-20043/0167	04/13/77	60	1316	4017N	05525E	46.5	126.5	GGGG		175	32
2812-06024	00000/0000	2-20043/0168	04/13/77	90	1316	3852N	05456E	47.1	124.8	GPPP		175	33
2812-06031	00000/0000	2-20043/0169	04/13/77	60	1316	3726N	05428E	47.7	123.2	FFGG		175	34
2812-06033	00000/0000	2-20043/0170	04/13/77	10	1316	3600N	05401E	48.2	121.4	GGGG		175	35
2812-07394	00000/0000	2-20043/0629	04/13/77	0	1317	6001N	03908E	35.5	148.0	GGGG		193	18
2812-07401	00000/0000	2-20043/0630	04/13/77	0	1317	5838N	03810E	36.4	146.4	GGGG		193	19
2812-07403	00000/0000	2-20043/0631	04/13/77	0	1317	5715N	03716E	37.3	144.9	GGGG		193	20
2812-07410	00000/0000	2-20043/0632	04/13/77	0	1317	5552N	03626E	38.2	143.4	GGGG		193	21
2812-07415	00000/0000	2-20043/0633	04/13/77	10	1317	5304N	03454E	39.9	140.4	GGGG		193	23
2812-07421	00000/0000	2-20043/0634	04/13/77	10	1317	5139N	03412E	40.7	139.0	GGGG		193	24
2812-07424	00000/0000	2-20043/0635	04/13/77	70	1317	5015N	03332E	41.5	137.5	GGGG		193	25
2812-07430	00000/0000	2-20043/0636	04/13/77	100	1317	4850N	03254E	42.3	136.0	GGGG		193	26

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
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 MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

22107 JUN 27, '77

LANDSAT-2
OBSERVATION ID LISTING
FOR NNN-US
FROM 05/01/77 TO 05/31/77

PAGE 0027

OBSERVATION ID	MICROFILM ROLL NO., POSITION IN ROLL RBV	DA- ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	PRINCIPAL POINT OF IMAGE LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2812-07433	00000/0000	2-20043/0637	04/13/77	100	1317	4725N	03218E	43.1	134.4	GGGG		193	27
2813-04210	00000/0000	2-20043/1628	04/14/77	10	1329	5302N	08507E	40.2	140.3	GGGG		158	23
2813-04212	00000/0000	2-20043/1629	04/14/77	30	1329	5138N	08425E	41.0	138.8	GGGG		158	24
2813-04215	00000/0000	2-20043/1630	04/14/77	10	1329	5013N	08345E	41.9	137.3	GGGG		158	25
2813-04221	00000/0000	2-20043/1631	04/14/77	10	1329	4849N	08306E	42.6	135.8	GGGG		158	26
2813-04224	00000/0000	2-20043/1632	04/14/77	10	1329	4724N	08230E	43.4	134.3	GGGG		158	27
2813-04230	00000/0000	2-20043/1633	04/14/77	0	1329	4559N	08155E	44.1	132.7	GGGF		158	28
2813-04233	00000/0000	2-20043/1634	04/14/77	10	1329	4433N	08121E	44.8	131.1	FFGF		158	29
2813-04235	00000/0000	2-20043/1635	04/14/77	20	1329	4308N	08049E	45.5	129.5	GGGG		158	30
2813-04242	00000/0000	2-20043/1636	04/14/77	20	1329	4143N	08018E	46.2	127.9	GGGG		158	31
2813-04244	00000/0000	2-20043/1637	04/14/77	30	1329	4018N	07948E	46.8	126.3	GGGF		158	32
2813-04251	00000/0000	2-20043/1638	04/14/77	50	1329	3852N	07919E	47.4	124.6	GGGG		158	33
2813-04253	00000/0000	2-20043/1639	04/14/77	60	1329	3726N	07851E	47.9	122.9	GGGG		158	34
2813-04260	00000/0000	2-20043/1640	04/14/77	40	1329	3601N	07823E	48.5	121.2	GGGG		158	35
2813-04262	00000/0000	2-20043/1641	04/14/77	40	1329	3435N	07757E	48.9	119.4	GGGG		158	36
2813-04265	00000/0000	2-20043/1642	04/14/77	50	1329	3309N	07732E	49.4	117.6	GGGG		158	37
2813-04271	00000/0000	2-20043/1643	04/14/77	90	1329	3143N	07707E	49.8	115.8	GGGG		158	38
2813-04274	00000/0000	2-20043/1644	04/14/77	60	1329	3017N	07643E	50.2	114.0	GGGG		158	39
2813-04280	00000/0000	2-20043/1645	04/14/77	50	1329	2851N	07619E	50.5	112.1	GGGG		158	40
2813-04283	00000/0000	2-20043/1646	04/14/77	20	1329	2725N	07556E	50.8	110.2	GFGG		158	41
2813-04285	00000/0000	2-20043/1647	04/14/77	20	1329	2600N	07532E	51.0	108.3	GGGG		158	42
2813-04292	00000/0000	2-20043/1648	04/14/77	10	1329	2434N	07510E	51.2	106.4	GGGG		158	43
2813-04294	00000/0000	2-20043/1649	04/14/77	0	1329	2307N	07447E	51.3	104.5	GGGG		158	44
2813-04301	00000/0000	2-20043/1650	04/14/77	10	1329	2141N	07425E	51.4	102.6	FFGF		158	45
2813-04303	00000/0000	2-20043/1651	04/14/77	10	1329	2015N	07403E	51.5	100.6	GGGG		158	46
2813-04310	00000/0000	2-20043/1652	04/14/77	10	1329	1848N	07341E	51.5	98.7	GGGG		158	47
2813-04312	00000/0000	2-20043/1653	04/14/77	10	1329	1721N	07321E	51.4	96.8	GGGG		158	48
2813-06035	00000/0000	2-20043/1654	04/14/77	20	1330	5426N	06000E	39.4	141.8	GGGG		176	22
2813-06041	00000/0000	2-20043/1655	04/14/77	70	1330	5302N	05916E	40.3	140.3	GGGG		176	23
2813-06044	00000/0000	2-20043/1656	04/14/77	100	1330	5137N	05834E	41.1	138.8	GGGG		176	24
2813-06050	00000/0000	2-20043/1657	04/14/77	90	1330	5012N	05755E	41.9	137.3	GGGG		176	25
2813-06053	00000/0000	2-20043/1658	04/14/77	100	1330	4847N	05717E	42.7	135.8	GGGG		176	26
2813-06055	00000/0000	2-20043/1659	04/14/77	90	1330	4722N	05640E	43.4	134.2	GGGG		176	27
2813-06062	00000/0000	2-20043/1660	04/14/77	40	1330	4558N	05605E	44.2	132.7	GGGG		176	28
2813-06064	00000/0000	2-20043/1661	04/14/77	20	1330	4434N	05531E	44.9	131.1	GGGG		176	29
2813-06071	00000/0000	2-20043/1662	04/14/77	20	1330	4308N	05459E	45.6	129.5	GGGG		176	30

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22:07 JUN 27, 1977

LANDSAT-2
OBSERVATION ID LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0028

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT LONG	SUN ELEV.	SUN AZIM.	IMAGE QUAL RBV MSS 123 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2813-06073	00000/0000	2-20043/1663	04/14/77	60	1330	4142N	05428E	46.2	127.9	GGGG		176	31
2814-04264	00000/0000	2-20043/1259	04/15/77	0	1343	5302N	08341E	40.6	140.2	FFFF		159	23
2814-04270	00000/0000	2-20043/1260	04/15/77	10	1343	5138N	08258E	41.4	138.7	FFFF		159	24
2814-04273	00000/0000	2-20043/1261	04/15/77	10	1343	5013N	08217E	42.2	137.2	FFFF		159	25
2814-04275	00000/0000	2-20043/1262	04/15/77	0	1343	4848N	08139E	43.0	135.6	FFFF		159	26
2814-04282	00000/0000	2-20043/1263	04/15/77	0	1343	4723N	08102E	43.7	134.1	FFFF		159	27
2814-04284	00000/0000	2-20043/1264	04/15/77	0	1343	4558N	08027E	44.5	132.5	PPGF		159	28
2814-04291	00000/0000	2-20043/1265	04/15/77	10	1343	4433N	07954E	45.2	130.9	PPFF		159	29
2814-04293	00000/0000	2-20043/1266	04/15/77	10	1343	4308N	07922E	45.8	129.3	PPGF		159	30
2814-04300	00000/0000	2-20043/1267	04/15/77	20	1343	4143N	07851E	46.5	127.7	FFFF		159	31
2814-04302	00000/0000	2-20043/1268	04/15/77	30	1343	4017N	07821E	47.1	126.0	FFFF		159	32
2814-04305	00000/0000	2-20043/1269	04/15/77	40	1343	3851N	07752E	47.7	124.3	FFFF		159	33
2814-04311	00000/0000	2-20043/1270	04/15/77	50	1343	3726N	07724E	48.2	122.6	FFFF		159	34
2814-04314	00000/0000	2-20043/1271	04/15/77	50	1343	3600N	07657E	48.7	120.8	GGGF		159	35
2814-04320	00000/0000	2-20043/1272	04/15/77	30	1343	3434N	07631E	49.2	119.1	FGGF		159	36
2814-04323	00000/0000	2-20043/1273	04/15/77	30	1343	3308N	07605E	49.7	117.2	FGGF		159	37
2814-04325	00000/0000	2-20043/1274	04/15/77	30	1343	3142N	07540E	50.1	115.4	PPFF		159	38
2814-04332	00000/0000	2-20043/1275	04/15/77	20	1343	3017N	07515E	50.4	113.6	FFFF		159	39
2814-04334	00000/0000	2-20043/1276	04/15/77	10	1343	2851N	07451E	50.7	111.7	FGGF		159	40
2814-04341	00000/0000	2-20043/1277	04/15/77	10	1343	2725N	07428E	51.0	109.8	FGGF		159	41
2814-04352	00000/0000	2-20043/1278	04/15/77	0	1343	2305N	07319E	51.5	104.0	FFGF		159	44
2814-04355	00000/0000	2-20043/1279	04/15/77	10	1343	2139N	07257E	51.6	102.1	PPFF		159	45
2814-04361	00000/0000	2-20043/1280	04/15/77	20	1343	2013N	07236E	51.6	100.1	PPFF		159	46
2814-04364	00000/0000	2-20043/1281	04/15/77	20	1343	1846N	07214E	51.6	98.2	FFGF		159	47
2814-06100	00000/0000	2-20043/1282	04/15/77	100	1344	5301N	05752E	40.6	140.2	GGGG		177	23
2814-06105	00000/0000	2-20043/1283	04/15/77	90	1344	5012N	05630E	42.2	137.1	GGGF		177	25
2814-06111	00000/0000	2-20043/1284	04/15/77	60	1344	4847N	05551E	43.0	135.6	FFFF		177	26
2814-06114	00000/0000	2-20043/1285	04/15/77	70	1344	4723N	05515E	43.8	134.0	FGGF		177	27
2814-06120	00000/0000	2-20043/1286	04/15/77	100	1344	4558N	05440E	44.5	132.5	GGGF		177	28
2814-06123	00000/0000	2-20043/1287	04/15/77	90	1344	4433N	05406E	45.2	130.9	FFFF		177	29
2814-06125	00000/0000	2-20043/1288	04/15/77	100	1344	4308N	05334E	45.9	129.3	FFFF		177	30
2815-04320	00000/0000	2-20043/0174	04/16/77	0	1357	5425N	08259E	40.1	141.6	GGGF		160	22
2815-04322	00000/0000	2-20043/0175	04/16/77	0	1357	5301N	08214E	40.9	140.1	PPFF		160	23
2815-04325	00000/0000	2-20043/0176	04/16/77	0	1357	5137N	08131E	41.7	138.5	PPGF		160	24
2815-04331	00000/0000	2-20043/0177	04/16/77	0	1357	5012N	08051E	42.5	137.0	PPGF		160	25
2815-04334	00000/0000	2-20043/0178	04/16/77	0	1357	4847N	08013E	43.3	135.4	PPGF		160	26

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANKS=BAND NOT AVAILABLE, G=GOOD, P=POOR, F=FAIR.
 MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

22:07 JUN 27, 1977

LANDSAT-2
OBSERVATION ID LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0029

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV MSS	DATE ACQUIRED	CLOUD COVER	SUN ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL. RBV MSS 123 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2815-04340	00000/0000 2-20043/0179	04/16/77	0	1357	4723N	07937E	44.1 133.9	PFGG			160	27
2815-04343	00000/0000 2-20043/0180	04/16/77	0	1357	4559N	07903E	44.8 132.3	FGGF			160	28
2815-04345	00000/0000 2-20043/0181	04/16/77	0	1357	4434N	07830E	45.5 130.7	FGGF			160	29
2815-04352	00000/0000 2-20043/0182	04/16/77	10	1357	4308N	07758E	46.2 129.1	PGGP			160	30
2815-04354	00000/0000 2-20043/0183	04/16/77	10	1357	4142N	07727E	46.8 127.4	FGGP			160	31
2815-04361	00000/0000 2-20043/0184	04/16/77	10	1357	4017N	07656E	47.4 125.7	GGGF			160	32
2815-04363	00000/0000 2-20043/0185	04/16/77	10	1357	3852N	07628E	48.0 124.0	GGGP			160	33
2815-04370	00000/0000 2-20043/0186	04/16/77	10	1357	3726N	07559E	48.5 122.3	GGGG			160	34
2815-04372	00000/0000 2-20043/0187	04/16/77	10	1357	3600N	07532E	49.0 120.5	GGGG			160	35
2815-04375	00000/0000 2-20043/0188	04/16/77	10	1357	3434N	07506E	49.5 118.7	GGGF			160	36
2815-04381	00000/0000 2-20043/0189	04/16/77	50	1357	3308N	07440E	49.9 116.9	FGGF			160	37
2815-04384	00000/0000 2-20043/0190	04/16/77	20	1357	3143N	07415E	50.3 115.0	FGGG			160	38
2815-04390	00000/0000 2-20043/0191	04/16/77	0	1357	3017N	07350E	50.7 113.1	FGGF			160	39
2815-04392	00000/0000 2-20043/0192	04/16/77	0	1357	2851N	07326E	51.0 111.2	FGGF			160	40
2815-04395	00000/0000 2-20043/0193	04/16/77	0	1357	2725N	07303E	51.2 109.3	FGGF			160	41
2815-04402	00000/0000 2-20043/0194	04/16/77	0	1357	2558N	07240E	51.4 107.4	FGGF			160	42
2815-04404	00000/0000 2-20043/0195	04/16/77	10	1357	2432N	07217E	51.6 105.5	FGGF			160	43
2815-04411	00000/0000 2-20043/0196	04/16/77	10	1357	2306N	07154E	51.7 103.5	FGGP			160	44
2815-04413	00000/0000 2-20043/0197	04/16/77	10	1357	2140N	07132E	51.8 101.6	PFGG			160	45
2815-04420	00000/0000 2-20043/0198	04/16/77	20	1357	2014N	07110E	51.8 99.6	PFGP			160	46
2815-04422	00000/0000 2-20043/0199	04/16/77	10	1357	1847N	07049E	51.8 97.7	FGGP			160	47
2815-06154	00000/0000 2-20043/0200	04/16/77	30	1358	5300N	05624E	40.9 140.0	GGGG			178	23
2815-06160	00000/0000 2-20043/0201	04/16/77	30	1358	5136N	05542E	41.8 138.5	GGGG			178	24
2815-06163	00000/0000 2-20043/0202	04/16/77	50	1358	5012N	05502E	42.6 137.0	GGGG			178	25
2815-06165	00000/0000 2-20043/0203	04/16/77	70	1358	4848N	05424E	43.3 135.4	GGGG			178	26
2815-06172	00000/0000 2-20043/0204	04/16/77	50	1358	4723N	05348E	44.1 133.9	PFGP			178	27
2815-06174	00000/0000 2-20043/0205	04/16/77	70	1358	4558N	05313E	44.8 132.3	GGGG			178	28
2815-06181	00000/0000 2-20043/0206	04/16/77	50	1358	4432N	05240E	45.5 130.7	PPFP			178	29
2815-06183	00000/0000 2-20043/0207	04/16/77	40	1358	4307N	05208E	46.2 129.0	GGGP			178	30
2815-06190	00000/0000 2-20043/0208	04/16/77	10	1358	4142N	05136E	46.8 127.4	FFFP			178	31
2815-07562	00000/0000 2-20043/0569	04/16/77	10	1359	6123N	03551E	35.6 149.5	GGGG			196	17
2815-07565	00000/0000 2-20043/0570	04/16/77	10	1359	6000N	03449E	36.5 147.8	GGGG			196	18
2815-07571	00000/0000 2-20043/0571	04/16/77	50	1359	5837N	03351E	37.4 146.2	GGGG			196	19
2815-07574	00000/0000 2-20043/0572	04/16/77	90	1359	5714N	03257E	38.4 144.7	GGGG			196	20
2815-07580	00000/0000 2-20043/0573	04/16/77	90	1359	5550N	03207E	39.2 143.1	GGGG			196	21
2815-07583	00000/0000 2-20043/0574	04/16/77	80	1359	5426N	03120E	40.1 141.6	GGGG			196	22

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANKS=BAND NOT AVAILABLE, G=GOOD, P=POOR, F=FAIR.
 MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

22107 JUN 27, 177

LANDSAT-2
OBSERVATION ID LISTING
FOR NNN-US
FROM 05/01/77 TO 05/31/77

PAGE 0030

OBSERVATION ID	MICROFILM ROLL NO., POSITION IN ROLL RBV	ROLL NO., MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV MSS 123 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2815-07585	00000/0000	2-20043/0575	04/16/77	80	1359	5302N 03035E	40.9	140.1	GGGG			196	23
2815-07592	00000/0000	2-20043/0576	04/16/77	80	1359	5138N 02953E	41.8	138.6	GGGG			196	24
2815-07594	00000/0000	2-20043/0577	04/16/77	40	1359	5014N 02913E	42.6	137.0	GGGG			196	25
2815-08001	00000/0000	2-20043/0578	04/16/77	60	1359	4849N 02835E	43.3	135.5	GGGG			196	26
2815-08003	00000/0000	2-20043/0579	04/16/77	80	1359	4725N 02759E	44.1	133.9	GGGG			196	27
2815-08010	00000/0000	2-20043/0580	04/16/77	100	1359	4600N 02724E	44.8	132.3	GGGG			196	28
2816-02592	00000/0000	2-20043/0209	04/17/77	0	1370	3726N 10022E	48.8	122.0	F			143	36
2816-02595	00000/0000	2-20043/0210	04/17/77	10	1370	3600N 09955E	49.3	120.2	FFFF			143	35
2816-03001	00000/0000	2-20043/0211	04/17/77	10	1370	3435N 09928E	49.8	118.4	FGG			143	36
2816-03004	00000/0000	2-20043/0212	04/17/77	30	1370	3309N 09902E	50.2	116.5	FGG			143	37
2816-03010	00000/0000	2-20043/0213	04/17/77	70	1370	3143N 09837E	50.5	114.7	GGG			143	38
2816-03013	00000/0000	2-20043/0214	04/17/77	30	1370	3017N 09812E	50.9	112.8	GGG			143	39
2816-04380	00000/0000	2-20043/0215	04/17/77	10	1371	5301N 08048E	41.3	139.9	PPF			161	23
2816-04383	00000/0000	2-20043/0216	04/17/77	10	1371	5138N 08006E	42.1	138.4	PPF			161	24
2816-04385	00000/0000	2-20043/0217	04/17/77	10	1371	5014N 07926E	42.9	136.8	PPF			161	25
2816-04392	00000/0000	2-20043/0218	04/17/77	0	1371	4848N 07848E	43.7	135.3	PPF			161	26
2816-04394	00000/0000	2-20043/0219	04/17/77	0	1371	4723N 07811E	44.4	133.7	FFF			161	27
2816-04401	00000/0000	2-20043/0220	04/17/77	10	1371	4558N 07736E	45.1	132.1	GGP			161	28
2816-04403	00000/0000	2-20043/0221	04/17/77	30	1371	4433N 07703E	45.8	130.5	FFP			161	29
2816-04410	00000/0000	2-20043/0222	04/17/77	10	1371	4308N 07631E	46.5	128.8	FFP			161	30
2816-04412	00000/0000	2-20043/0223	04/17/77	10	1371	4143N 07600E	47.1	127.2	FFP			161	31
2816-04415	00000/0000	2-20043/0224	04/17/77	10	1371	4017N 07531E	47.7	125.4	GGP			161	32
2816-04421	00000/0000	2-20043/0225	04/17/77	10	1371	3851N 07502E	48.3	123.7	GGP			161	33
2816-04424	00000/0000	2-20043/0226	04/17/77	10	1371	3726N 07434E	48.8	122.0	GGF			161	34
2816-04430	00000/0000	2-20043/0227	04/17/77	20	1371	3600N 07406E	49.3	120.2	GGF			161	35
2816-04433	00000/0000	2-20043/0228	04/17/77	70	1371	3434N 07340E	49.8	118.3	GGG			161	36
2816-04453	00000/0000	2-20043/0229	04/17/77	10	1371	2725N 07136E	51.4	108.9	GGP			161	41
2816-04462	00000/0000	2-20043/0230	04/17/77	10	1371	2432N 07051E	51.8	105.0	GGP			161	43
2816-04465	00000/0000	2-20043/0231	04/17/77	10	1371	2306N 07028E	51.9	103.0	GGF			161	46
2816-04471	00000/0000	2-20043/0232	04/17/77	10	1371	2139N 07006E	52.0	101.0	PFGP			161	45
2816-04474	00000/0000	2-20043/0233	04/17/77	10	1371	2013N 06944E	52.0	99.1	PFGP			161	46
2816-06221	00000/0000	2-20043/0234	04/17/77	40	1372	5011N 05335E	42.9	136.8	PPF			179	25
2816-06223	00000/0000	2-20043/0235	04/17/77	10	1372	4847N 05257E	43.7	135.3	FGP			179	26
2816-06230	00000/0000	2-20043/0236	04/17/77	20	1372	4722N 05221E	44.4	133.7	FFP			179	27
2816-08014	00000/0000	2-20043/0638	04/17/77	90	1373	6245N 03537E	35.0	151.1	GGGG			197	16
2816-08020	00000/0000	2-20043/0639	04/17/77	90	1373	6122N 03430E	36.0	149.4	GGGG			197	17

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
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 MSS DATA MODE (BLANK)=COMPRESSED. L=LINEAR
 MSS IMAGE GAIN (BLANK)=LOW GAIN. H=HIGH GAIN

22107 JUN 27, 1977

LANDSAT-2
OBSERVATION ID LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0031

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	SUN ELEV.	SUN AZIM.	IMAGE=QUAL RBV MSS DATA 123 45678 MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2816-08023	00000/0000 2-20043/0640	04/17/77	90	1373	6001N	03328E	36.9	147.8	GGGG	197	18
2816-08025	00000/0000 2-20043/0641	04/17/77	90	1373	5838N	03230E	37.8	146.2	GGGG	197	19
2816-08032	00000/0000 2-20043/0642	04/17/77	70	1373	5714N	03136E	38.7	144.6	GGGG	197	20
2816-08034	00000/0000 2-20043/0643	04/17/77	80	1373	5551N	03045E	39.6	143.0	GGGG	197	21
2816-08041	00000/0000 2-20043/0644	04/17/77	90	1373	5427N	02958E	40.4	141.5	GGGG	197	22
2816-08043	00000/0000 2-20043/0645	04/17/77	100	1373	5304N	02914E	41.3	140.0	GGGG	197	23
2816-08050	00000/0000 2-20043/0646	04/17/77	100	1373	5139N	02831E	42.1	138.4	GGGG	197	24
2816-08052	00000/0000 2-20043/0647	04/17/77	100	1373	5015N	02751E	42.9	136.9	GGGG	197	25
2816-08055	00000/0000 2-20043/0648	04/17/77	70	1373	4850N	02713E	43.7	135.3	GGGG	197	26
2818-03093	00000/0000 2-20043/0237	04/19/77	0	1398	4143N	09857E	47.7	126.6	FGGF	145	31
2818-03095	00000/0000 2-20043/0238	04/19/77	0	1398	4018N	09827E	48.3	124.9	FGGF	145	32
2818-03102	00000/0000 2-20043/0239	04/19/77	0	1398	3833N	09758E	48.8	123.1	FGGF	145	33
2818-03104	00000/0000 2-20043/0240	04/19/77	0	1398	3727N	09730E	49.4	121.3	FGGF	145	34
2818-03111	00000/0000 2-20043/0241	04/19/77	0	1398	3601N	09703E	49.8	119.5	FGGF	145	35
2818-03113	00000/0000 2-20043/0242	04/19/77	10	1398	3435N	09637E	50.3	117.7	FGGF	145	36
2818-03120	00000/0000 2-20043/0243	04/19/77	10	1398	3308N	09611E	50.7	115.8	FGGF	145	37
2818-03122	00000/0000 2-20043/0244	04/19/77	70	1398	3142N	09546E	51.0	113.9	GGGG	145	38
2818-03125	00000/0000 2-20043/0245	04/19/77	80	1398	3017N	09521E	51.4	111.9	GGGG	145	39
2818-03131	00000/0000 2-20043/0246	04/19/77	80	1398	2850N	09458E	51.6	110.0	GGGG	145	40
2818-03134	00000/0000 2-20043/0247	04/19/77	80	1398	2724N	09435E	51.9	108.0	FFFF	145	41
2818-03140	00000/0000 2-20043/0248	04/19/77	70	1398	2559N	09412E	52.0	106.0	FFFF	145	42
2818-03143	00000/0000 2-20043/0249	04/19/77	20	1398	2433N	09350E	52.2	104.1	PPFP	145	43
2818-03145	00000/0000 2-20043/0250	04/19/77	20	1398	2307N	09327E	52.3	102.1	PPFP	145	44
2818-03152	00000/0000 2-20043/0251	04/19/77	20	1398	2140N	09305E	52.3	100.1	PPFP	145	45
2818-03154	00000/0000 2-20043/0252	04/19/77	50	1398	2013N	09243E	52.3	98.1	PPFP	145	46
2818-03161	00000/0000 2-20043/0253	04/19/77	70	1398	1846N	09221E	52.2	96.1	GGGG	145	47
2818-04490	00000/0000 2-20043/0254	04/19/77	70	1399	5429N	07842E	41.1	141.3	FGFG	163	22
2818-04492	00000/0000 2-20043/0255	04/19/77	70	1399	5305N	07757E	41.9	139.7	FGFG	163	23
2818-04495	00000/0000 2-20043/0256	04/19/77	50	1399	5140N	07715E	42.7	138.2	PPFP	163	24
2818-04501	00000/0000 2-20043/0257	04/19/77	20	1399	5015N	07634E	43.5	136.6	PPFP	163	25
2818-04515	00000/0000 2-20043/0258	04/19/77	0	1399	4436N	07411E	46.4	130.1	FFGF	163	29
2818-04522	00000/0000 2-20043/0259	04/19/77	30	1399	4310N	07339E	47.1	128.4	PPGF	163	30
2818-04524	00000/0000 2-20043/0260	04/19/77	60	1399	4146N	07309E	47.7	126.7	FFGF	163	31
2818-04531	00000/0000 2-20043/0261	04/19/77	20	1399	4020N	07239E	48.3	124.9	FFGF	163	32
2818-04533	00000/0000 2-20043/0262	04/19/77	10	1399	3855N	07210E	48.9	123.2	GGGG	163	33
2818-04540	00000/0000 2-20043/0263	04/19/77	0	1399	3729N	07142E	49.4	121.4	FFFF	163	34

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANKS=BAND NOT AVAILABLE, G=GOOD, P=POOR, F=FAIR,
 MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

22:07 JUN 27, 1977

LANDSAT-2
OBSERVATION ID LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0032

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV	ROLL NO. MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	PRINCIPAL POINT OF IMAGE LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV MSS 123 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2818-04554	00000/0000	2-20043/0264	04/19/77	10	1399	3146N	06957E	51.1	113.9	FGGF			163	38
2818-04560	00000/0000	2-20043/0265	04/19/77	10	1399	3020N	06932E	51.4	112.0	FFGP			163	39
2818-04563	00000/0000	2-20043/0266	04/19/77	10	1399	2854N	06908E	51.6	110.0	PPFP			163	40
2818-04565	00000/0000	2-20043/0267	04/19/77	0	1399	2728N	06845E	51.9	108.1	FFFF			163	41
2818-04572	00000/0000	2-20043/0268	04/19/77	0	1399	2601N	06822E	52.0	106.1	PPPP			163	42
2818-04574	00000/0000	2-20043/0269	04/19/77	0	1399	2434N	06759E	52.2	104.1	PPFF			163	43
2818-04581	00000/0000	2-20043/0270	04/19/77	10	1399	2308N	06737E	52.3	102.1	PPFP			163	44
2818-04583	00000/0000	2-20043/0271	04/19/77	30	1399	2141N	06715E	52.3	100.1	PPPF			163	45
2818-04590	00000/0000	2-20043/0272	04/19/77	20	1399	2015N	06653E	52.3	98.1	PPFP			163	46
2818-06333	00000/0000	2-20043/0273	04/19/77	0	1400	5014N	05046E	43.5	136.6	PPFP			181	25
2818-06335	00000/0000	2-20043/0274	04/19/77	40	1400	4850N	05008E	44.3	135.0	PPFG			181	26
2818-06342	00000/0000	2-20043/0275	04/19/77	70	1400	4726N	04932E	45.1	133.3	GGGF			181	27
2818-06344	00000/0000	2-20043/0276	04/19/77	60	1400	4601N	04857E	45.8	131.7	PPFP			181	28
2818-06351	00000/0000	2-20043/0277	04/19/77	40	1400	4435N	04824E	46.5	130.1	PPFP			181	29
2818-06353	00000/0000	2-20043/0278	04/19/77	50	1400	4310N	04752E	47.1	128.4	PPFP			181	30
2819-03142	00000/0000	2-20043/0279	04/20/77	0	1412	4437N	09836E	46.7	129.9	G			146	25
2819-03144	00000/0000	2-20043/0280	04/20/77	0	1412	4312N	09804E	47.4	128.2	GGGG			146	30
2819-03151	00000/0000	2-20043/0281	04/20/77	0	1412	4147N	09733E	48.0	126.5	GGGG			146	31
2819-03153	00000/0000	2-20043/0282	04/20/77	0	1412	4021N	09703E	48.6	124.7	GGGG			146	32
2819-03160	00000/0000	2-20043/0283	04/20/77	0	1412	3855N	09634E	49.1	122.9	GGGG			146	33
2819-03162	00000/0000	2-20043/0284	04/20/77	20	1412	3730N	09606E	49.6	121.1	GGGG			146	34
2819-03165	00000/0000	2-20043/0285	04/20/77	30	1412	3604N	09539E	50.1	119.2	GGGG			146	35
2819-03171	00000/0000	2-20043/0286	04/20/77	10	1412	3438N	09513E	50.5	117.4	GGGG			146	36
2819-03174	00000/0000	2-20043/0287	04/20/77	10	1412	3312N	09447E	50.9	115.5	GGGG			146	37
2819-03180	00000/0000	2-20043/0288	04/20/77	40	1412	3147N	09422E	51.3	113.5	GGGG			146	38
2819-03183	00000/0000	2-20043/0289	04/20/77	50	1412	3020N	09357E	51.6	111.6	GGGG			146	39
2819-03185	00000/0000	2-20043/0290	04/20/77	60	1412	2855N	09333E	51.8	109.6	GGGG			146	40
2819-03192	00000/0000	2-20043/0291	04/20/77	60	1412	2729N	09309E	52.1	107.6	GGGG			146	41
2819-03194	00000/0000	2-20043/0292	04/20/77	30	1412	2603N	09246E	52.2	105.7	FFGG			146	42
2819-03201	00000/0000	2-20043/0293	04/20/77	30	1412	2437N	09223E	52.4	103.7	FGGG			146	43
2819-03203	00000/0000	2-20043/0294	04/20/77	20	1412	2310N	09200E	52.4	101.6	FGGG			146	44
2819-03210	00000/0000	2-20043/0295	04/20/77	10	1412	2143N	09138E	52.5	99.6	FGGG			146	45
2819-03212	00000/0000	2-20043/0296	04/20/77	20	1412	2016N	09117E	52.4	97.7	GGGG			146	46
2819-03221	00000/0000	2-20043/0297	04/20/77	30	1412	1723N	09034E	52.2	93.7	GGGG			146	48
2819-04544	00000/0000	2-20043/0298	04/20/77	30	1413	5429N	07716E	41.4	141.2	GGGG			164	22
2819-04550	00000/0000	2-20043/0299	04/20/77	40	1413	5305N	07633E	42.2	139.6	GGGG			164	23

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANKS, BAND NOT AVAILABLE, G=GOOD, P=POOR, F=FAIR.
 MSS DATA MODE (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN (BLANK)=LOW GAIN, H=HIGH GAIN

22107 JUN 27, 177

LANDSAT-2
OBSERVATION ID LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0033

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT LONG	SUN ELEV.	SUN AZIM.	IMAGE QUAL RBV MSS 123 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2819-04553	00000/0000	2-20043/0300	04/20/77	90	1413	5141N	07551E	43.0	138.0	PPPP		164	24
2819-04555	00000/0000	2-20043/0301	04/20/77	70	1413	5016N	07511E	43.8	136.4	GGGG		164	25
2819-04562	00000/0000	2-20043/0302	04/20/77	30	1413	4851N	07433E	44.6	134.8	FGGG		164	26
2819-04564	00000/0000	2-20043/0303	04/20/77	10	1413	4727N	07356E	45.3	133.2	FGGG		164	27
2819-04571	00000/0000	2-20043/0304	04/20/77	0	1413	4602N	07321E	46.1	131.5	GGGG		164	28
2819-04573	00000/0000	2-20043/0305	04/20/77	10	1413	4436N	07247E	46.7	129.8	GGGG		164	29
2819-04580	00000/0000	2-20043/0306	04/20/77	10	1413	4311N	07214E	47.4	128.1	GGGG		164	30
2819-04582	00000/0000	2-20043/0307	04/20/77	20	1413	4146N	07143E	48.0	126.4	GGGG		164	31
2819-04585	00000/0000	2-20043/0308	04/20/77	10	1413	4020N	07112E	48.6	124.7	GGGG		164	32
2819-04591	00000/0000	2-20043/0309	04/20/77	10	1413	3855N	07043E	49.1	122.9	GGGG		164	33
2819-04594	00000/0000	2-20043/0310	04/20/77	10	1413	3729N	07015E	49.6	121.1	GGGG		164	34
2819-05000	00000/0000	2-20043/0311	04/20/77	10	1413	3603N	06948E	50.1	119.2	GGGG		164	35
2819-05003	00000/0000	2-20043/0312	04/20/77	0	1413	3437N	06922E	50.6	117.3	GGGG		164	36
2819-05005	00000/0000	2-20043/0313	04/20/77	0	1413	3311N	06857E	50.9	115.4	GGGG		164	37
2819-05012	00000/0000	2-20043/0314	04/20/77	0	1413	3145N	06831E	51.3	113.5	GGGF		164	38
2819-05014	00000/0000	2-20043/0315	04/20/77	0	1413	3019N	06807E	51.6	111.6	PPPP		164	39
2819-05021	00000/0000	2-20043/0316	04/20/77	0	1413	2853N	06743E	51.9	109.6	GGGG		164	40
2819-05023	00000/0000	2-20043/0317	04/20/77	0	1413	2727N	06719E	52.1	107.6	GGGG		164	41
2819-05030	00000/0000	2-20043/0318	04/20/77	0	1413	2600N	06655E	52.2	105.6	GGGG		164	42
2819-05032	00000/0000	2-20043/0319	04/20/77	0	1413	2434N	06632E	52.4	103.6	PPPP		164	43
2819-05035	00000/0000	2-20043/0320	04/20/77	10	1413	2307N	06610E	52.4	101.6	PPPP		164	44
2819-05041	00000/0000	2-20043/0321	04/20/77	10	1413	2141N	06548E	52.5	99.6	PPPP		164	45
2819-05044	00000/0000	2-20043/0322	04/20/77	10	1413	2015N	06527E	52.4	97.6	FFFF		164	46
2820-03193	00000/0000	2-20043/0323	04/21/77	10	1426	4602N	09743E	46.3	131.3	FGFF		167	28
2820-03200	00000/0000	2-20043/0324	04/21/77	20	1426	4437N	09710E	47.0	129.6	FFFF		167	29
2820-03202	00000/0000	2-20043/0325	04/21/77	20	1426	4312N	09637E	47.7	127.9	FGFF		167	30
2820-03205	00000/0000	2-20043/0326	04/21/77	60	1426	4146N	09606E	48.3	126.2	FGGF		167	31
2820-03211	00000/0000	2-20043/0327	04/21/77	50	1426	4021N	09536E	48.9	124.4	FGFF		167	32
2820-03214	00000/0000	2-20043/0328	04/21/77	30	1426	3855N	09508E	49.4	122.6	FFFF		167	33
2820-03220	00000/0000	2-20043/0329	04/21/77	30	1426	3730N	09439E	49.9	120.8	FGFG		167	34
2820-03223	00000/0000	2-20043/0330	04/21/77	50	1426	3604N	09412E	50.4	118.9	FFFF		167	35
2820-03225	00000/0000	2-20043/0331	04/21/77	100	1426	3438N	09345E	50.8	117.0	FGFG		167	36
2820-03232	00000/0000	2-20043/0332	04/21/77	90	1426	3312N	09320E	51.2	115.1	FGGF		167	37
2820-03234	00000/0000	2-20043/0333	04/21/77	80	1426	3147N	09255E	51.5	113.1	FGFG		167	38
2820-03241	00000/0000	2-20043/0334	04/21/77	60	1426	3021N	09230E	51.8	111.2	GGGG		167	39
2820-03243	00000/0000	2-20043/0335	04/21/77	50	1426	2855N	09206E	52.1	109.2	GGGF		167	40

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
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 MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

22107 JUN 27, '77

LANDSAT-2
OBSERVATION ID LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0034

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2820-03250	00000/0000 2-20043/0336	04/21/77	80	1426	2728N	09142E	52.3	107.2	FFFF		167	41
2820-03252	00000/0000 2-20043/0337	04/21/77	60	1426	2602N	09119E	52.4	105.2	FGFG		167	42
2820-03255	00000/0000 2-20043/0338	04/21/77	50	1426	2436N	09057E	52.5	103.2	FGGG		167	43
2820-03261	00000/0000 2-20043/0339	04/21/77	40	1426	2309N	09034E	52.6	101.2	FGGG		167	44
2820-03264	00000/0000 2-20043/0340	04/21/77	30	1426	2143N	09012E	52.6	99.1	PGGF		167	45
2820-03270	00000/0000 2-20043/0341	04/21/77	30	1426	2016N	08951E	52.6	97.1	FFFF		167	46
2820-03273	00000/0000 2-20043/0342	04/21/77	40	1426	1849N	08929E	52.5	95.1	GFGE		167	47
2820-03275	00000/0000 2-20043/0343	04/21/77	20	1426	1723N	08908E	52.4	93.2	FFFF		167	48
2820-03282	00000/0000 2-20043/0344	04/21/77	20	1426	1557N	08846E	52.2	91.2	FFFF		167	49
2820-05002	00000/0000 2-20043/0345	04/21/77	0	1427	5429N	07550E	41.7	141.1	FFFF		165	28
2820-05004	00000/0000 2-20043/0346	04/21/77	0	1427	5305N	07504E	42.6	139.5	FFFF		165	29
2820-05011	00000/0000 2-20043/0347	04/21/77	0	1427	5140N	07422E	43.4	137.9	FFFF		165	30
2820-05013	00000/0000 2-20043/0348	04/21/77	0	1427	5015N	07342E	44.2	136.2	FFFF		165	31
2820-05020	00000/0000 2-20043/0349	04/21/77	10	1427	4851N	07304E	44.9	134.6	FFGF		165	32
2820-05022	00000/0000 2-20043/0350	04/21/77	0	1427	4726N	07228E	45.7	133.0	FGGG		165	33
2820-05025	00000/0000 2-20043/0351	04/21/77	0	1427	4601N	07154E	46.4	131.3	FGGG		165	34
2820-05040	00000/0000 2-20043/0352	04/21/77	20	1427	4466N	07017E	48.3	126.2	FFGF		165	35
2820-05043	00000/0000 2-20043/0353	04/21/77	20	1427	4020N	06946E	48.9	124.4	FGGF		165	36
2820-05045	00000/0000 2-20043/0354	04/21/77	40	1427	3854N	06917E	49.4	122.6	FGGG		165	37
2820-05082	00000/0000 2-20043/0355	04/21/77	80	1427	3729N	06849E	49.9	120.7	FGGG		165	38
2820-05084	00000/0000 2-20043/0356	04/21/77	30	1427	3603N	06822E	50.4	118.9	FGGF		165	39
2820-05061	00000/0000 2-20043/0357	04/21/77	0	1427	3437N	06756E	50.8	117.0	GGGG		165	40
2820-05063	00000/0000 2-20043/0358	04/21/77	0	1427	3311N	06730E	51.2	115.0	GGGG		165	41
2820-05070	00000/0000 2-20043/0359	04/21/77	10	1427	3146N	06705E	51.5	113.1	FGGG		165	42
2820-05072	00000/0000 2-20043/0360	04/21/77	10	1427	3020N	06640E	51.8	111.1	FGGF		165	43
2820-05075	00000/0000 2-20043/0361	04/21/77	0	1427	2855N	06616E	52.1	109.1	GGGF		165	44
2820-05081	00000/0000 2-20043/0362	04/21/77	0	1427	2728N	06553E	52.3	107.1	FFFF		165	45
2820-05093	00000/0000 2-20043/0363	04/21/77	10	1427	2309N	06445E	52.6	101.1	FFFF		165	46
2820-05095	00000/0000 2-20043/0364	04/21/77	30	1427	2142N	06423E	52.6	99.1	FFFF		165	47
2820-06445	00000/0000 2-20043/0837	04/21/77	90	1428	5016N	04756E	44.2	136.2	GGGG		183	25
2820-06452	00000/0000 2-20043/0838	04/21/77	90	1428	4851N	04719E	45.0	134.6	GGGG		183	26
2820-06454	00000/0000 2-20043/0839	04/21/77	50	1428	4726N	04642E	45.7	133.0	GGGG		183	27
2820-06461	00000/0000 2-20043/0840	04/21/77	10	1428	4601N	04606E	46.4	131.3	GGGG		183	28
2820-06463	00000/0000 2-20043/0841	04/21/77	10	1428	4436N	04532E	47.1	129.6	GGGG		183	29
2820-06470	00000/0000 2-20043/0842	04/21/77	30	1428	4310N	04500E	47.7	127.9	GGGG		183	30
2820-06472	00000/0000 2-20043/0843	04/21/77	30	1428	4145N	04429E	48.3	126.1	GGGG		183	31

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
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22107 JUN 27, '77

LANDSAT-2
OBSERVATION ID LISTING
FOR NNN-US
FROM 05/01/77 TO 05/31/77

PAGE 0035

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV MSS 123 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2820-06475	00000/0000	2-20043/0844	04/21/77	10	1428	4020N 04359E	48.9	124.3	PPPP			183	32
2820-06481	00000/0000	2-20043/0845	04/21/77	20	1428	3854N 04330E	49.4	122.5	FFFF			183	33
2820-08254	00000/0000	2-20043/0846	04/21/77	90	1429	5837N 02642E	39.2	145.9	GGGG			201	19
2820-08260	00000/0000	2-20043/0847	04/21/77	90	1429	5714N 02549E	40.1	144.2	GGGG			201	20
2820-08263	00000/0000	2-20043/0848	04/21/77	90	1429	5550N 02458E	40.9	142.6	GGGG			201	21
2820-08265	00000/0000	2-20043/0849	04/21/77	90	1429	5426N 02410E	41.8	141.0	GGGG			201	22
2820-08272	00000/0000	2-20043/0850	04/21/77	80	1429	5303N 02325E	42.6	139.4	GGGG			201	23
2820-08274	00000/0000	2-20043/0851	04/21/77	20	1429	5139N 02243E	43.4	137.8	GGGG			201	24
2820-08281	00000/0000	2-20043/0852	04/21/77	20	1429	5014N 02203E	44.2	136.2	GGGG			201	25
2820-08283	00000/0000	2-20043/0853	04/21/77	10	1429	4849N 02125E	45.0	134.6	GGGG			201	26
2821-03251	00000/0000	2-20043/0365	04/22/77	100	1440	4601N 09616E	46.6	131.1	FFFF			148	28
2821-03254	00000/0000	2-20043/0366	04/22/77	100	1440	4436N 09543E	47.3	129.4	GGGG			148	29
2821-03260	00000/0000	2-20043/0367	04/22/77	90	1440	4311N 09511E	48.0	127.7	GGGG			148	30
2821-03265	00000/0000	2-20043/0368	04/22/77	90	1440	4020N 09410E	49.1	124.1	FFFF			148	32
2821-03274	00000/0000	2-20043/0369	04/22/77	70	1440	3729N 09313E	50.2	120.4	PPPP			148	34
2821-03281	00000/0000	2-20043/0370	04/22/77	10	1440	3604N 09246E	50.6	118.6	GGGG			148	35
2821-03283	00000/0000	2-20043/0371	04/22/77	30	1440	3438N 09219E	51.0	116.6	GGGG			148	36
2821-03290	00000/0000	2-20043/0372	04/22/77	10	1440	3312N 09153E	51.4	114.7	GGGG			148	37
2821-03292	00000/0000	2-20043/0373	04/22/77	30	1440	3146N 09128E	51.8	112.7	GGGG			148	38
2821-03295	00000/0000	2-20043/0374	04/22/77	40	1440	3020N 09103E	52.0	110.8	FFFF			148	39
2821-03301	00000/0000	2-20043/0375	04/22/77	70	1440	2854N 09039E	52.3	108.8	GGGG			148	40
2821-03304	00000/0000	2-20043/0376	04/22/77	40	1440	2728N 09015E	52.5	106.7	PPPP			148	41
2821-03310	00000/0000	2-20043/0377	04/22/77	80	1440	2601N 08952E	52.6	104.7	PPPP			148	42
2821-03313	00000/0000	2-20043/0378	04/22/77	90	1440	2435N 08929E	52.7	102.7	PPPP			148	43
2821-03315	00000/0000	2-20043/0379	04/22/77	30	1440	2309N 08908E	52.8	100.7	PPPP			148	44
2821-03322	00000/0000	2-20043/0380	04/22/77	20	1440	2143N 08847E	52.8	98.6	PPPP			148	45
2821-03324	00000/0000	2-20043/0381	04/22/77	20	1440	2016N 08825E	52.7	96.6	FFFF			148	46
2821-03331	00000/0000	2-20043/0382	04/22/77	10	1440	1849N 08803E	52.6	94.6	FFFF			148	47
2821-03333	00000/0000	2-20043/0383	04/22/77	10	1440	1722N 08742E	52.5	92.6	FFFF			148	48
2821-03340	00000/0000	2-20043/0384	04/22/77	20	1440	1555N 08721E	52.3	90.7	PPPP			148	49
2821-03342	00000/0000	2-20043/0385	04/22/77	10	1440	1429N 08700E	52.0	88.8	FFFF			148	50
2821-05074	00000/0000	2-20043/0386	04/22/77	0	1441	4852N 07141E	45.2	134.4	PPPP			166	26
2821-05081	00000/0000	2-20043/0387	04/22/77	10	1441	4726N 07103E	46.0	132.8	PPPP			166	27
2821-05083	00000/0000	2-20043/0388	04/22/77	60	1441	4601N 07028E	46.7	131.1	PPPP			166	28
2821-05090	00000/0000	2-20043/0389	04/22/77	90	1441	4436N 06955E	47.3	129.4	FFFF			166	29
2821-05092	00000/0000	2-20043/0390	04/22/77	90	1441	4311N 06923E	48.0	127.6	FFFF			166	30

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
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 MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

22107 JUN 27, 1977

LANDSAT-2
OBSERVATION ID LISTING
FOR N9N-US
FROM 05/01/77 TO 05/31/77

PAGE 0036

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2821-05095	00000/0000 2-20043/0391	04/22/77	90	1441	4146N	06851E	48.6 125.9	FPFQ			166	31
2821-05113	00000/0000 2-20043/0392	04/22/77	50	1441	3603N	06656E	50.6 118.5	FFFF			166	35
2821-05115	00000/0000 2-20043/0393	04/22/77	10	1441	3437N	06630E	51.1 116.6	PFQD			166	36
2821-05122	00000/0000 2-20043/0394	04/22/77	10	1441	3311N	06604E	51.4 114.7	PPFP			166	37
2821-05124	00000/0000 2-20043/0395	04/22/77	20	1441	3146N	06539E	51.8 112.7	FGGF			166	38
2821-05133	00000/0000 2-20043/0396	04/22/77	10	1441	2854N	06451E	52.3 108.7	FF			166	40
2821-05140	00000/0000 2-20043/0397	04/22/77	10	1441	2728N	06428E	52.5 106.7	FG			166	41
2821-05142	00000/0000 2-20043/0398	04/22/77	0	1441	2602N	06405E	52.6 104.7	PPPP			166	42
2821-05154	00000/0000 2-20043/0399	04/22/77	10	1441	2142N	06257E	52.8 98.6	PPPP			166	45
2821-08312	00000/0000 2-20043/0400	04/22/77	90	1443	5838N	02516E	39.5 145.8	P P			202	19
2821-08314	00000/0000 2-20043/0401	04/22/77	80	1443	5716N	02423E	40.4 144.1	P P			202	20
2821-08321	00000/0000 2-20043/0402	04/22/77	90	1443	5552N	02332E	41.3 142.5	P P			202	21
2821-08323	00000/0000 2-20043/0403	04/22/77	90	1443	5428N	02245E	42.1 140.9	P P			202	22
2822-05114	00000/0000 2-20043/1057	04/23/77	10	1455	5430N	07301E	42.4 140.8	PFQ			167	22
2822-05121	00000/0000 2-20043/1058	04/23/77	0	1455	5305N	07216E	43.2 139.2	PP P			167	23
2822-05123	00000/0000 2-20043/1059	04/23/77	0	1455	5141N	07134E	44.0 137.6	PPQG			167	24
2822-05130	00000/0000 2-20043/1060	04/23/77	0	1455	5017N	07054E	44.8 135.9	PFQG			167	25
2822-05132	00000/0000 2-20043/1061	04/23/77	0	1455	4852N	07016E	45.5 134.3	PGGG			167	26
2822-05135	00000/0000 2-20043/1062	04/23/77	0	1455	4727N	06940E	46.3 132.6	PGGG			167	27
2822-05141	00000/0000 2-20043/1063	04/23/77	20	1455	4603N	06905E	47.0 130.9	FGGG			167	28
2822-05144	00000/0000 2-20043/1064	04/23/77	40	1455	4439N	06831E	47.6 129.2	FPFF			167	29
2822-05150	00000/0000 2-20043/1065	04/23/77	30	1455	4314N	06755E	48.3 127.4	GGGG			167	30
2822-05153	00000/0000 2-20043/1066	04/23/77	20	1455	4148N	06727E	48.9 125.6	GGGG			167	31
2822-05155	00000/0000 2-20043/1067	04/23/77	30	1455	4021N	06656E	49.4 123.8	GGGG			167	32
2822-05162	00000/0000 2-20043/1068	04/23/77	30	1455	3855N	06626E	50.0 122.0	GGGG			167	33
2822-05164	00000/0000 2-20043/1069	04/23/77	10	1455	3729N	06558E	50.5 120.1	GGGG			167	34
2822-05171	00000/0000 2-20043/1070	04/23/77	10	1455	3604N	06531E	50.9 118.2	GGGG			167	35
2822-05173	00000/0000 2-20043/1071	04/23/77	30	1455	3438N	06504E	51.3 116.2	GGGG			167	36
2822-05180	00000/0000 2-20043/1072	04/23/77	100	1455	3312N	06439E	51.7 114.3	FFFF			167	37
2822-05182	00000/0000 2-20043/1073	04/23/77	100	1455	3146N	06413E	52.0 112.3	GGGG			167	38
2822-05185	00000/0000 2-20043/1074	04/23/77	60	1455	3020N	06349E	52.3 110.3	GGGG			167	39
2822-05191	00000/0000 2-20043/1075	04/23/77	50	1455	2853N	06325E	52.5 108.3	GGGG			167	40
2822-05194	00000/0000 2-20043/1076	04/23/77	30	1455	2727N	06302E	52.7 106.2	GGGF			167	41
2822-05200	00000/0000 2-20043/1077	04/23/77	0	1455	2601N	06239E	52.8 104.2	GGGF			167	42
2822-05203	00000/0000 2-20043/1078	04/23/77	0	1455	2434N	06217E	52.9 102.2	FFGF			167	43
2822-05205	00000/0000 2-20043/1079	04/23/77	0	1455	2308N	06154E	52.9 100.1	PFFF			167	44

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
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22107 JUN 27, 177

LANDSAT-2
OBSERVATION ID LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0037

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	POINT LONG	SUN ELEV.	JN IM.	IMAGE QUAL RBV MSS 123 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2823-07004	00000/0000	2-20043/0095	04/24/77	10	1470	5430N	04542E	42.7	140.7	GGGF			186	22
2823-07010	00000/0000	2-20043/0096	04/24/77	10	1470	5305N	04457E	43.6	139.0	GGGG			186	23
2823-07013	00000/0000	2-20043/0097	04/24/77	10	1470	5141N	04415E	44.4	137.4	GGGG			186	24
2823-07015	00000/0000	2-20043/0098	04/24/77	60	1470	5016N	04335E	45.1	135.7	GGGG			186	25
2823-07033	00000/0000	2-20043/0099	04/24/77	100	1470	4436N	04113E	48.0	128.9	GGGG			186	29
2823-08424	00000/0000	2-20043/0100	04/24/77	100	1471	5839N	02226E	40.2	145.6	GGGG			204	19
2823-08430	00000/0000	2-20043/0101	04/24/77	80	1471	5716N	02132E	41.0	143.9	GGGG			204	20
2823-08433	00000/0000	2-20043/0102	04/24/77	70	1471	5552N	02041E	41.9	142.3	GGGG			204	21
2823-08435	00000/0000	2-20043/0103	04/24/77	70	1471	5428N	01954E	42.8	140.7	GGGG			204	22
2823-08442	00000/0000	2-20043/0104	04/24/77	60	1471	5304N	01909E	43.6	139.0	GGGG			204	23
2824-01575	00000/0000	2-20043/0534	04/25/77	10	1481	5017N	11939E	45.4	135.6	GGGG			133	25
2824-01581	00000/0000	2-20043/0535	04/25/77	10	1481	4853N	11501E	46.1	133.9	GGGG			133	26
2824-01595	00000/0000	2-20043/0536	04/25/77	0	1481	4313N	11644E	48.8	127.0	GGGG			133	30
2824-02002	00000/0000	2-20043/0537	04/25/77	10	1481	4147N	11612E	49.4	125.1	GGGG			133	31
2824-02004	00000/0000	2-20043/0538	04/25/77	10	1481	4022N	11541E	49.9	123.3	GGGG			133	32
2824-02011	00000/0000	2-20043/0539	04/25/77	30	1481	3856N	11512E	50.4	121.4	GGGG			133	33
2824-02013	00000/0000	2-20043/0540	04/25/77	70	1481	3730N	11443E	50.9	119.5	GGGG			133	34
2824-02020	00000/0000	2-20043/0541	04/25/77	90	1481	3605N	11416E	51.4	117.6	GGGG			133	35
2824-02022	00000/0000	2-20043/0542	04/25/77	30	1481	3439N	11350E	51.8	115.6	GGGG			133	36
2824-02025	00000/0000	2-20043/0543	04/25/77	40	1481	3313N	11324E	52.1	113.6	GGGG			133	37
2824-02031	00000/0000	2-20043/0544	04/25/77	70	1481	3147N	11259E	52.4	111.6	GGGG			133	38
2824-02034	00000/0000	2-20043/0545	04/25/77	50	1481	3021N	11235E	52.7	109.5	GGGG			133	39
2824-02040	00000/0000	2-20043/0546	04/25/77	70	1481	2855N	11211E	52.9	107.5	GGGG			133	40
2824-02043	00000/0000	2-20043/0547	04/25/77	90	1481	2729N	11147E	53.0	105.4	GGGG			133	41
2824-02045	00000/0000	2-20043/0548	04/25/77	90	1481	2603N	11124E	53.1	103.4	GGGG			133	42
2824-02052	00000/0000	2-20043/0549	04/25/77	90	1481	2436N	11102E	53.2	101.3	GGGG			133	43
2824-02054	00000/0000	2-20043/0550	04/25/77	80	1481	2309N	11039E	53.2	99.2	GGGG			133	44
2824-02061	00000/0000	2-20043/0551	04/25/77	40	1481	2143N	11017E	53.2	97.2	G			133	45
2824-02063	00000/0000	2-20043/0552	04/25/77	10	1481	2017N	10956E	53.1	95.1	GGGG			133	46
2824-03390	00000/0000	2-20043/0553	04/25/77	40	1482	5713N	09733E	41.3	143.9	GGGG			151	20
2824-03392	00000/0000	2-20043/0554	04/25/77	40	1482	5555N	09643E	42.1	142.2	GGGG			151	21
2824-03395	00000/0000	2-20043/0555	04/25/77	10	1482	5431N	09556E	43.0	140.6	GGGG			151	22
2824-03413	00000/0000	2-20043/0404	04/25/77	0	1482	4853N	09311E	46.1	133.9	GGG			151	26
2824-03415	00000/0000	2-20043/0405	04/25/77	0	1482	4729N	09235E	46.8	132.2	GGGG			151	27
2824-03422	00000/0000	2-20043/0406	04/25/77	0	1482	4603N	09159E	47.5	130.5	GGGG			151	28
2824-03424	00000/0000	2-20043/0407	04/25/77	0	1482	4438N	09126E	48.2	128.7	GGGG			151	29

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22107 JUN 27, '77

LANDSAT-2
OBSERVATION ID LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0038

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV MSS 123 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2824-03431	00000/0000	2-20043/0408	04/25/77	20	1482	4313N 09055E	48.8	126.9	GGG			151	30
2824-03433	00000/0000	2-20043/0409	04/25/77	70	1482	4147N 09024E	49.4	125.1	FPPF			151	31
2824-03440	00000/0000	2-20043/0410	04/25/77	40	1482	4021N 08954E	50.0	123.2	GGGG			151	32
2824-03445	00000/0000	2-20043/0411	04/25/77	40	1482	3730N 08856E	50.9	119.5	GGG			151	34
2824-03454	00000/0000	2-20043/0412	04/25/77	30	1482	3439N 08803E	51.8	115.5	GGGG			151	36
2824-03460	00000/0000	2-20043/0413	04/25/77	30	1482	3314N 08737E	52.1	113.6	GGGG			151	37
2824-03463	00000/0000	2-20043/0414	04/25/77	30	1482	3148N 08712E	52.4	111.5	GGGG			151	38
2824-03465	00000/0000	2-20043/0415	04/25/77	10	1482	3022N 08647E	52.7	109.5	GGGG			151	39
2824-03472	00000/0000	2-20043/0416	04/25/77	10	1482	2855N 08623E	52.9	107.4	FGGG			151	40
2824-03474	00000/0000	2-20043/0417	04/25/77	20	1482	2728N 08558E	53.0	105.4	GGGG			151	41
2824-03481	00000/0000	2-20043/0418	04/25/77	50	1482	2602N 08535E	53.2	103.3	GGGG			151	42
2824-03483	00000/0000	2-20043/0419	04/25/77	20	1482	2436N 08512E	53.2	101.2	FPPF			151	43
2824-03490	00000/0000	2-20043/0420	04/25/77	30	1482	2310N 08450E	53.2	99.2	GGGG			151	44
2824-03492	00000/0000	2-20043/0421	04/25/77	10	1482	2143N 08427E	53.2	97.1	GGGG			151	45
2824-03495	00000/0000	2-20043/0422	04/25/77	10	1482	2017N 08406E	53.1	95.1	FGGG			151	46
2824-03501	00000/0000	2-20043/0423	04/25/77	10	1482	1850N 08344E	53.0	93.1	PGGG			151	47
2824-03513	00000/0000	2-20043/0424	04/25/77	40	1482	1429N 08242E	52.3	87.2	GGGG			151	50
2824-03515	00000/0000	2-20043/0425	04/25/77	90	1482	1302N 08221E	51.9	85.3	GGGP			151	51
2824-05221	00000/0000	2-20043/0556	04/25/77	90	1483	5718N 07143E	41.3	143.9	GGGG			169	20
2824-05224	00000/0000	2-20043/0557	04/25/77	30	1483	5554N 07052E	42.2	142.2	GGGG			169	21
2824-05230	00000/0000	2-20043/0426	04/25/77	0	1483	5430N 07005E	43.0	140.6	PPPF			169	22
2824-05233	00000/0000	2-20043/0427	04/25/77	0	1483	5306N 06921E	43.8	138.9	FGGG			169	23
2824-05235	00000/0000	2-20043/0428	04/25/77	0	1483	5141N 06839E	44.6	137.3	PPPF			169	24
2824-05242	00000/0000	2-20043/0429	04/25/77	0	1483	5016N 06759E	45.4	135.6	GGGG			169	25
2824-05244	00000/0000	2-20043/0430	04/25/77	0	1483	4851N 06720E	46.2	133.9	GGGG			169	26
2824-05253	00000/0000	2-20043/0431	04/25/77	0	1483	4603N 06609E	47.6	130.4	GGGG			169	28
2824-05260	00000/0000	2-20043/0432	04/25/77	0	1483	4437N 06535E	48.2	128.7	PPP			169	29
2824-05262	00000/0000	2-20043/0433	04/25/77	30	1483	4312N 06503E	48.8	126.9	GGGG			169	30
2824-05265	00000/0000	2-20043/0434	04/25/77	50	1483	4147N 06432E	49.4	125.1	GGGG			169	31
2824-05271	00000/0000	2-20043/0435	04/25/77	50	1483	4021N 06403E	50.0	123.2	GGGG			169	32
2824-05274	00000/0000	2-20043/0436	04/25/77	60	1483	3855N 06334E	50.5	121.3	FGGG			169	33
2824-05280	00000/0000	2-20043/0437	04/25/77	80	1483	3730N 06306E	51.0	119.4	FGGG			169	34
2824-05283	00000/0000	2-20043/0438	04/25/77	80	1483	3604N 06239E	51.4	117.5	FGGG			169	35
2824-05285	00000/0000	2-20043/0439	04/25/77	70	1483	3438N 06213E	51.8	115.5	FGGG			169	36
2824-05292	00000/0000	2-20043/0440	04/25/77	70	1483	3312N 06148E	52.1	113.5	FGGG			169	37
2824-05301	00000/0000	2-20043/0441	04/25/77	70	1483	3020N 06057E	52.7	109.5	FGGG			169	39

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22:07 JUN 27, 1977

LANDSAT-2
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FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0039

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV MSS 123 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2824-05303	00000/0000	2-20043/0442	04/25/77	40	1483	2853N	06033E	52.9	107.4	GGGG		169	40
2824-05310	00000/0000	2-20043/0443	04/25/77	10	1483	2728N	06008E	53.1	105.3	GGGG		169	41
2824-05312	00000/0000	2-20043/0444	04/23/77	10	1483	2601N	05945E	53.2	103.3	FGGG		169	42
2824-05315	00000/0000	2-20043/0445	04/25/77	10	1483	2435N	05923E	53.2	101.2	PPPP		169	43
2824-05394	00000/0000	2-20043/0558	04/25/77	40	1483	0251S	05250E	45.7	67.8	GGGG		169	62
2824-05401	00000/0000	2-20043/0559	04/25/77	40	1483	0418S	05230E	44.9	66.6	GGGG	H	169	63
2824-05403	00000/0000	2-20043/0560	04/25/77	50	1483	0545S	05210E	44.1	65.4	GGGG	H	169	64
2824-05410	00000/0000	2-20043/0561	04/25/77	50	1483	0713S	05151E	43.3	64.3	GGGG	H	169	65
2824-05412	00000/0000	2-20043/0562	04/25/77	40	1483	0839S	05131E	42.4	63.2	GGGG	H	169	66
2824-07044	00000/0000	2-20043/0563	04/25/77	10	1484	6003N	04748E	39.5	147.2	FGGG		187	18
2824-07055	00000/0000	2-20043/0469	04/25/77	100	1484	5553N	04504E	42.2	142.2	GGG		187	21
2824-07062	00000/0000	2-20043/0470	04/25/77	100	1484	5429N	04416E	43.0	140.6	FGGG		187	22
2824-07064	00000/0000	2-20043/0471	04/25/77	100	1484	5304N	04332E	43.9	138.9	GGGG		187	23
2824-07071	00000/0000	2-20043/0477	04/25/77	90	1484	5140N	04250E	44.7	137.2	G		187	24
2824-07073	00000/0000	2-20043/0478	04/25/77	90	1484	5016N	04210E	45.4	135.6	G		187	25
2824-07080	00000/0000	2-20043/0472	04/25/77	100	1484	4851N	04131E	46.2	133.9	GGGF		187	26
2824-07082	00000/0000	2-20043/0473	04/25/77	90	1484	4726N	04055E	46.9	132.2	GGGG		187	27
2824-07085	00000/0000	2-20043/0474	04/25/77	80	1484	4600N	04019E	47.6	130.4	GGGG		187	28
2824-07091	00000/0000	2-20043/0475	04/25/77	70	1484	4436N	03946E	48.2	128.6	GGGG		187	29
2824-07094	00000/0000	2-20043/0476	04/25/77	60	1484	4310N	03914E	48.9	126.9	GGGG		187	30
2824-10311	00000/0000	2-20043/0564	04/25/77	100	1486	6004N	00346W	39.6	147.3	GGGG		223	18
2824-10314	00000/0000	2-20043/0565	04/25/77	90	1486	5841N	00444W	40.5	145.6	GGGG		223	19
2824-10320	00000/0000	2-20043/0566	04/25/77	70	1486	5718N	00538W	41.4	143.9	GGGG		223	20
2824-10325	00000/0000	2-20043/0567	04/25/77	60	1486	5431N	00717W	43.1	140.6	GGGF		223	22
2824-20441	00000/0000	2-20043/0688	04/25/77	50	1492	7935N	11504W	23.4	198.0	GGGG		80	2
2824-20443	00000/0000	2-20043/0689	04/25/77	60	1492	7846N	12128W	24.5	191.4	GGGG		80	3
2824-20450	00000/0000	2-20043/0690	04/25/77	80	1492	7749N	12659W	25.5	185.6	GGGG		80	4
2824-20452	00000/0000	2-20043/0691	04/25/77	50	1492	7647N	13142W	26.6	180.7	GGGG		80	5
2824-20455	00000/0000	2-20043/0692	04/25/77	90	1492	7540N	13543W	27.7	176.3	GGGG		80	6
2824-20461	00000/0000	2-20043/0693	04/25/77	80	1492	7431N	13910W	28.8	172.5	GGGG		80	7
2824-20464	00000/0000	2-20043/0694	04/25/77	50	1492	7318N	14209W	29.8	169.2	GGGG		80	8
2824-20470	00000/0000	2-20043/0695	04/25/77	30	1492	7204N	14445W	30.9	166.2	GGGG		80	9
2824-21211	00000/0000	2-20043/0568	04/25/77	20	1492	4431S	16908E	16.4	51.1	GGGG		80	91
2824-21214	00000/0000	2-20043/0515	04/25/77	30	1492	4556S	16835E	15.3	51.1	FFGG		80	92
2825-02033	00000/0000	2-20043/0516	04/26/77	20	1495	5019N	11814E	45.7	135.5	GGGG		134	25
2825-02035	00000/0000	2-20043/0517	04/26/77	10	1495	4854N	11736E	46.4	133.8	GGGG		134	26

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22107 JUN 27, 77

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FROM 05/01/77 TO 05/31/77

PAGE 0040

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT LONG	SUN ELEV.	SUN AZIM.	IMAGE=QUAL RBV MSS 123 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2825-02053	00000/0000	2-20043/0518	04/26/77	60	1495	4313N	11517E	49.1 126.7	GGGG			134	30
2825-02060	00000/0000	2-20043/0519	04/26/77	40	1495	4147N	11446E	49.7 124.9	GGGG			134	31
2825-02062	00000/0000	2-20043/0520	04/26/77	30	1495	4022N	11416E	50.2 123.0	GGGG			134	32
2825-02065	00000/0000	2-20043/0521	04/26/77	80	1495	3857N	11347E	50.7 121.1	GGGG			134	33
2825-02071	00000/0000	2-20043/0522	04/26/77	90	1495	3732N	11320E	51.2 119.2	GGGF			134	34
2825-02074	00000/0000	2-20043/0523	04/26/77	90	1495	3606N	11253E	51.6 117.2	GGGG			134	35
2825-02080	00000/0000	2-20043/0524	04/26/77	100	1495	3499N	11226E	52.0 115.2	GGGG			134	36
2825-02083	00000/0000	2-20043/0525	04/26/77	100	1495	3313N	11200E	52.3 113.2	GGFG			134	37
2825-02085	00000/0000	2-20043/0526	04/26/77	100	1495	3147N	11135E	52.6 111.2	GGGG			134	38
2825-02092	00000/0000	2-20043/0527	04/26/77	100	1495	3021N	11110E	52.9 109.1	GGGG			134	39
2825-02094	00000/0000	2-20043/0528	04/26/77	90	1495	2853N	11046E	53.1 107.1	GGGG			134	40
2825-02101	00000/0000	2-20043/0529	04/26/77	60	1495	2729N	11022E	53.2 105.0	GGGG			134	41
2825-02103	00000/0000	2-20043/0530	04/26/77	60	1495	2603N	10959E	53.3 102.9	GGGG			134	42
2825-02110	00000/0000	2-20043/0531	04/26/77	60	1495	2436N	10936E	53.4 100.8	GGGG			134	43
2825-02112	00000/0000	2-20043/0532	04/26/77	20	1495	2310N	10914E	53.4 98.7	GGGG			134	44
2825-02115	00000/0000	2-20043/0533	04/26/77	40	1495	2144N	10852E	53.3 96.7	GGGG			134	45
2825-03464	00000/0000	2-20043/0581	04/26/77	10	1496	5017N	09222E	45.7 135.4	GGGG			152	25
2825-03471	00000/0000	2-20043/0582	04/26/77	10	1496	4852N	09144E	46.4 133.7	FFFF			152	26
2825-03473	00000/0000	2-20043/0583	04/26/77	10	1496	4727N	09108E	47.1 132.0	GFGG			152	27
2825-03480	00000/0000	2-20043/0584	04/26/77	0	1496	4602N	09032E	47.8 130.2	GGGG			152	28
2825-03482	00000/0000	2-20043/0585	04/26/77	0	1496	4437N	09000E	48.5 128.5	GGGG			152	29
2825-03485	00000/0000	2-20043/0586	04/26/77	0	1496	4312N	08927E	49.1 126.7	GGGG			152	30
2825-03491	00000/0000	2-20043/0587	04/26/77	0	1496	4147N	08856E	49.7 124.8	GGGG			152	31
2825-03494	00000/0000	2-20043/0588	04/26/77	0	1496	4022N	08826E	50.2 123.0	FFFF			152	32
2825-03500	00000/0000	2-20043/0589	04/26/77	10	1496	3856N	08757E	50.7 121.1	GGGG			152	33
2825-03503	00000/0000	2-20043/0590	04/26/77	40	1496	3730N	08729E	51.2 119.1	GFGG			152	34
2825-03505	00000/0000	2-20043/0591	04/26/77	40	1496	3604N	08702E	51.6 117.2	GFGG			152	35
2825-03512	00000/0000	2-20043/0592	04/26/77	70	1496	3438N	08635E	52.0 115.2	GFGG			152	36
2825-03514	00000/0000	2-20043/0593	04/26/77	30	1496	3312N	08609E	52.3 113.2	GGFG			152	37
2825-03521	00000/0000	2-20043/0594	04/26/77	10	1496	3146N	08544E	52.6 111.1	GGGG			152	38
2825-03523	00000/0000	2-20043/0595	04/26/77	10	1496	3020N	08520E	52.9 109.1	GGGG			152	39
2825-03530	00000/0000	2-20043/0596	04/26/77	0	1496	2854N	08456E	53.1 107.0	GGGG			152	40
2825-03532	00000/0000	2-20043/0597	04/26/77	10	1496	2728N	08432E	53.2 104.9	FFFF			152	41
2825-03535	00000/0000	2-20043/0598	04/26/77	10	1496	2603N	08408E	53.3 102.9	GGGF			152	42
2825-03541	00000/0000	2-20043/0599	04/26/77	10	1496	2437N	08345E	53.4 100.8	FGGF			152	43
2825-03544	00000/0000	2-20043/0600	04/26/77	0	1496	2309N	08322E	53.4 98.7	FGGG			152	44

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANKS=BAND NOT AVAILABLE, G=GOOD, P=POOR, F=FAIR.
 MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

22107 JUN 27, 1977

LANDSAT-2
OBSERVATION ID LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0041

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV MSS	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2825-03550	00000/0000	2-20043/0601	04/26/77	10	1496	2142N	08300E	53.3	96.6	FGFG		152	45
2825-03553	00000/0000	2-20043/0602	04/26/77	20	1496	2016N	08239E	53.2	94.6	GGFG		152	46
2825-03555	00000/0000	2-20043/0603	04/26/77	20	1496	1850N	08218E	53.1	92.6	GGGG		152	47
2825-03562	00000/0000	2-20043/0604	04/26/77	40	1496	1724N	08157E	52.9	90.6	GGGG		152	48
2825-03564	00000/0000	2-20043/0605	04/26/77	70	1496	1556N	08135E	52.6	88.6	GGGG		152	49
2825-03571	00000/0000	2-20043/0606	04/26/77	80	1496	1429N	08115E	52.3	86.7	GGGF		152	50
2825-03573	00000/0000	2-20043/0607	04/26/77	80	1496	1302N	08055E	52.0	84.8	GGGG		152	51
2825-05493	00000/0000	2-20043/0619	04/26/77	50	1497	1719S	04804E	36.8	57.5	GGGG		170	72
2825-07184	00000/0000	2-20043/0715	04/26/77	10	1498	3145N	03406E	52.7	111.0	GFFF		188	38
2825-10365	00000/0000	2-20043/0716	04/26/77	60	1500	6004N	00516W	39.9	147.2	GFFF		224	18
2825-10372	00000/0000	2-20043/0700	04/26/77	10	1500	5842N	00613W	40.8	145.5	GGGF		224	19
2825-10374	00000/0000	2-20043/0701	04/26/77	60	1500	5718N	00706W	41.7	143.8	GGGF		224	20
2825-17243	00000/0000	2-20043/0702	04/26/77	50	1504	7645N	05137W	26.9	180.6	FGFG		45	5
2825-17325	00000/0000	2-20043/0854	04/26/77	60	1504	5016N	11408W	45.9	135.3	GGGG		45	25
2825-20492	00000/0000	2-20043/0620	04/26/77	50	1506	8016N	10901W	22.6	205.8	GGGG		68	248
2825-20495	00000/0000	2-20043/0621	04/26/77	40	1506	7935N	11625W	23.7	198.1	GGGG		81	2
2825-20501	00000/0000	2-20043/0622	04/26/77	60	1506	7845N	12248W	24.8	191.5	FGGG		81	3
2825-20504	00000/0000	2-20043/0623	04/26/77	50	1506	7749N	12815W	25.9	185.7	FGGG		81	4
2825-20510	00000/0000	2-20043/0624	04/26/77	40	1506	7647N	13257W	26.9	180.7	FGGG		81	5
2825-20513	00000/0000	2-20043/0625	04/26/77	20	1506	7541N	13659W	28.0	176.4	GGGG		81	6
2825-20515	00000/0000	2-20043/0626	04/26/77	60	1506	7431N	14029W	29.1	172.6	GGGG		81	7
2825-20522	00000/0000	2-20043/0627	04/26/77	70	1506	7318N	14331W	30.1	169.2	GCGG		81	8
2825-20524	00000/0000	2-20043/0628	04/26/77	50	1506	7204N	14609W	31.2	166.2	FGGG		81	9
2826-00280	00000/0000	2-20043/0703	04/27/77	20	1508	4311N	13940E	49.3	126.4	GGGG		117	30
2826-02093	00000/0000	2-20043/0704	04/27/77	10	1509	4854N	11608E	46.7	133.6	GGGG		135	26
2826-02114	00000/0000	2-20043/0705	04/27/77	20	1509	4149N	11322E	49.9	124.6	GGGG		135	31
2826-02120	00000/0000	2-20043/0706	04/27/77	10	1509	4023N	11252E	50.5	122.7	GGGG		135	32
2826-02125	00000/0000	2-20043/0707	04/27/77	10	1509	3731N	11154E	51.4	118.8	GGGG		135	34
2826-02132	00000/0000	2-20043/0708	04/27/77	10	1509	3605N	11127E	51.8	116.9	GGGG		135	35
2826-02134	00000/0000	2-20043/0709	04/27/77	20	1509	3439N	11100E	52.2	114.9	GGGG		135	36
2826-02141	00000/0000	2-20043/0710	04/27/77	30	1509	3313N	11035E	52.5	112.8	GGFG		135	37
2826-02155	00000/0000	2-20043/0711	04/27/77	90	1509	2728N	10856E	53.4	104.5	GGGG		135	41
2826-02161	00000/0000	2-20043/0712	04/27/77	70	1509	2602N	10834E	53.5	102.4	GGGG		135	42
2826-02164	00000/0000	2-20043/0713	04/27/77	70	1509	2436N	10811E	53.5	100.3	GGGG		135	43
2826-02170	00000/0000	2-20043/0714	04/27/77	70	1509	2310N	10748E	53.5	98.3	GGGG		135	44
2826-03525	00000/0000	2-20043/0446	04/27/77	80	1510	4854N	09018E	46.7	133.5	GGGG		153	26

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANKS=BAD NOT AVAILABLE. G=GOOD. P=POOR. F=FAIR.
 MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

22107 JUN 27, 1977

LANDSAT-2
OBSERVATION ID LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0042

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV	MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	PRINCIPAL POINT OF IMAGE LONG	SUN ELEV.	SUN AZIM.	IMAGE QUAL RBV	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2826-03531	00000/0000	2-20043/0447	04/27/77	50	1510	4729N	08942E	47.4	131.8	FGGG			153	27
2826-03534	00000/0000	2-20043/0448	04/27/77	70	1510	4603N	08907E	48.1	130.0	FGGG			153	28
2826-03540	00000/0000	2-20043/0449	04/27/77	60	1510	4438N	08834E	48.8	128.2	FGFF			153	29
2826-03542	00000/0000	2-20043/0450	04/27/77	20	1510	4313N	08802E	49.4	126.4	FGGF			153	30
2826-03545	00000/0000	2-20043/0451	04/27/77	30	1510	4148N	08730E	49.9	124.6	FGFF			153	31
2826-03552	00000/0000	2-20043/0452	04/27/77	100	1510	4022N	08701E	50.5	122.7	FGFF			153	32
2826-03554	00000/0000	2-20043/0453	04/27/77	100	1510	3856N	08632E	51.0	120.7	FGFF			153	33
2826-03563	00000/0000	2-20043/0454	04/27/77	60	1510	3605N	08537E	51.9	116.8	FFFF			153	35
2826-03570	00000/0000	2-20043/0455	04/27/77	30	1510	3439N	08510E	52.2	114.8	FGGG			153	36
2826-03572	00000/0000	2-20043/0456	04/27/77	30	1510	3313N	08444E	52.6	112.8	GGGG			153	37
2826-03575	00000/0000	2-20043/0457	04/27/77	30	1510	3147N	08419E	52.8	110.7	GGGG			153	38
2826-03593	00000/0000	2-20043/0458	04/27/77	0	1510	2603N	08243E	53.5	102.4	GGGG			153	42
2826-03595	00000/0000	2-20043/0459	04/27/77	10	1510	2436N	08221E	53.5	100.3	GGGG			153	43
2826-04002	00000/0000	2-20043/0460	04/27/77	20	1510	2310N	08157E	53.5	98.2	FGGG			153	44
2826-04004	00000/0000	2-20043/0461	04/27/77	20	1510	2144N	08136E	53.4	96.1	GGGG			153	45
2826-04011	00000/0000	2-20043/0462	04/27/77	30	1510	2017N	08114E	53.3	94.1	GGGG			153	46
2826-04013	00000/0000	2-20043/0463	04/27/77	10	1510	1850N	08053E	53.2	92.0	FGGG			153	47
2826-04020	00000/0000	2-20043/0464	04/27/77	10	1510	1723N	08031E	53.0	90.0	GGGG			153	48
2826-04022	00000/0000	2-20043/0465	04/27/77	10	1510	1557N	08010E	52.7	88.1	GGGG			153	49
2826-04025	00000/0000	2-20043/0466	04/27/77	10	1510	1430N	07949E	52.4	86.1	FFGG			153	50
2826-04031	00000/0000	2-20043/0467	04/27/77	20	1510	1303N	07928E	52.0	84.2	FGGG			153	51
2826-04034	00000/0000	2-20043/0468	04/27/77	30	1510	1136N	07908E	51.6	82.4	GGGG			153	52
2826-07172	00000/0000	2-20043/0650	04/27/77	90	1512	5553N	04213E	42.8	142.0	GGGG			189	21
2826-07174	00000/0000	2-20043/0651	04/27/77	80	1512	5429N	04126E	43.7	140.3	GGGF			189	22
2826-07181	00000/0000	2-20043/0652	04/27/77	60	1512	5305N	04041E	44.5	138.6	FFFF			189	23
2826-07183	00000/0000	2-20043/0653	04/27/77	90	1512	5141N	03959E	45.3	136.9	GGGG			189	24
2826-07190	00000/0000	2-20043/0654	04/27/77	90	1512	5017N	03919E	46.0	135.2	FGGG			189	25
2826-07192	00000/0000	2-20043/0655	04/27/77	90	1512	4852N	03841E	46.8	133.5	GGGG			189	26
2826-07195	00000/0000	2-20043/0655	04/27/77	90	1512	4727N	03804E	47.5	131.7	FGGG			189	27
2826-07201	00000/0000	2-20043/0657	04/27/77	90	1512	4601N	03729E	48.2	130.0	GGGG			189	28
2826-07204	00000/0000	2-20043/0658	04/27/77	60	1512	4436N	03656E	48.8	128.2	GGGG			189	29
2826-14022	00000/0000	2-20043/0774	04/27/77	0	1516	7934N	01434W	23.9	198.2	GGGG			11	2
2826-14122	00000/0000	2-20043/0682	04/27/77	10	1516	4852N	06434W	46.8	133.4	FGGG			10	26
2826-14143	00000/0000	2-20043/0683	04/27/77	40	1516	4147N	06722W	50.1	124.4	FGGG			10	31
2826-14145	00000/0000	2-20043/0684	04/27/77	70	1516	4021N	06752W	50.6	122.5	GGGG			10	32
2826-14152	00000/0000	2-20043/0685	04/27/77	30	1516	3856N	06820W	51.1	120.6	GGGG			10	33

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANKS=BAND NOT AVAILABLE, G=GOOD, P=POOR, F=FAIR.
 MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

22:07 JUN 27, '77

LANDSAT-2
OBSERVATION ID LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0043

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	PRINCIPAL POINT OF IMAGE LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV	MSS 123	MSS 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME RBV NUMBER
2826-15545	00000/0000	2-20043/0586	04/27/77	90	1517	5141N	08903W	45.4	136.9	GGGG				28	24
2826-15552	00000/0000	2-20043/0687	04/27/77	90	1517	5017N	08943W	46.1	135.1	GGGG				28	25
2826-16025	00000/0000	2-20043/0649	04/27/77	50	1517	2435N	09820W	53.6	100.0	GGGG				28	43
2826-17290	00000/0000	2-20043/0775	04/27/77	20	1518	7933N	06615W	24.0	198.0	GGGG				47	2
2826-17310	00000/0000	2-20043/0776	04/27/77	10	1518	7429N	09023W	29.4	172.5	GGGG				47	7
2826-17372	00000/0000	2-20043/0696	04/27/77	90	1518	5429N	11326W	43.8	140.2	GGGG				46	22
2826-17374	00000/0000	2-20043/0697	04/27/77	50	1518	5305N	11411W	44.6	138.5	GGGG				46	23
2826-17381	00000/0000	2-20043/0698	04/27/77	10	1518	5141N	11454W	45.4	136.8	GGGG				46	24
2826-17383	00000/0000	2-20043/0699	04/27/77	10	1518	5017N	11534W	46.2	135.1	GGGG				46	25
2826-20550	00000/0000	2-20043/0765	04/27/77	40	1520	8015N	11020W	22.9	205.8	GGGG				84	1
2826-20553	00000/0000	2-20043/0766	04/27/77	70	1520	7934N	11745W	24.0	198.3	GGGG				83	2
2826-20555	00000/0000	2-20043/0767	04/27/77	20	1520	7845N	12409W	25.1	191.6	GGGG				83	3
2826-20562	00000/0000	2-20043/0768	04/27/77	20	1520	7748N	12939W	26.2	185.8	GGGG				83	4
2826-20564	00000/0000	2-20043/0769	04/27/77	10	1520	7646N	13421W	27.3	180.8	GGGG				83	5
2826-20571	00000/0000	2-20043/0770	04/27/77	10	1520	7540N	13824W	28.3	176.4	GGGG				83	6
2826-20573	00000/0000	2-20043/0771	04/27/77	10	1520	7431N	14152W	29.4	172.6	GGGG				83	7
2826-20580	00000/0000	2-20043/0772	04/27/77	10	1520	7319N	14453W	30.4	169.2	GGGG				83	8
2826-20582	00000/0000	2-20043/0773	04/27/77	10	1520	7204N	14731W	31.5	166.2	GGGG				82	9
2827-02172	00000/0000	2-20043/0777	04/28/77	0	1523	4149N	11157E	50.2	124.3	GGGG				136	31
2827-02174	00000/0000	2-20043/0778	04/28/77	0	1523	4023N	11126E	50.7	122.4	GGG				136	32
2827-02181	00000/0000	2-20043/0779	04/28/77	0	1523	3857N	11056E	51.2	120.5	GGGG				136	33
2827-02183	00000/0000	2-20043/0780	04/28/77	20	1523	3732N	11028E	51.7	118.5	GGGG				136	34
2827-02190	00000/0000	2-20043/0781	04/28/77	70	1523	3606N	11001E	52.1	116.5	GGGG				136	35
2827-02192	00000/0000	2-20043/0782	04/28/77	60	1523	3440N	10934E	52.4	114.5	GGGG				136	36
2827-02195	00000/0000	2-20043/0783	04/28/77	80	1523	3314N	10908E	52.8	112.4	GGGG				136	37
2827-02201	00000/0000	2-20043/0784	04/28/77	90	1523	3147N	10842E	53.0	110.4	GGGG				136	38
2827-02204	00000/0000	2-20043/0785	04/28/77	100	1523	3021N	10818E	53.3	108.3	GGGG				136	39
2827-02210	00000/0000	2-20043/0786	04/28/77	100	1523	2855N	10754E	53.4	106.2	GGGG				136	40
2827-02213	00000/0000	2-20043/0787	04/28/77	90	1523	2729N	10730E	53.6	104.1	GGGG				136	41
2827-02215	00000/0000	2-20043/0788	04/28/77	90	1523	2603N	10708E	53.6	102.0	GGGG				136	42
2827-02222	00000/0000	2-20043/0789	04/28/77	80	1523	2437N	10645E	53.7	99.9	GGGG				136	43
2827-03574	00000/0000	2-20043/0717	04/28/77	60	1524	5143N	09010E	45.5	136.8	GGGG				154	24
2827-03581	00000/0000	2-20043/0718	04/28/77	60	1524	5019N	08930E	46.3	135.1	GGGG				154	25
2827-03583	00000/0000	2-20043/0719	04/28/77	40	1524	4854N	08852E	47.0	133.4	GGGG				154	26
2827-03590	00000/0000	2-20043/0720	04/28/77	70	1524	4729N	08815E	47.7	131.6	GGGG				154	27
2827-03592	00000/0000	2-20043/0721	04/28/77	80	1524	4603N	08741E	48.4	129.8	GGGG				154	28

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANKS=BAND NOT AVAILABLE. G=GOOD. P=POOR. F=FAIR.
 MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

22:07 JUN 27, 77

LANDSAT-2
OBSERVATION ID LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0044

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV	DATE ACQUIRED	CLOUD COVER	SUN ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	PRINCIPAL POINT OF IMAGE LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2827-03595	00000/0000	2-20043/0722	04/28/77	70	1524	4438N	08708E	49.0	128.0	FFFF		154	29
2827-04001	00000/0000	2-20043/0723	04/28/77	80	1524	4313N	08636E	49.6	126.1	GGGG		154	30
2827-04004	00000/0000	2-20043/0724	04/28/77	80	1524	4147N	08605E	50.2	124.3	GGGG		154	31
2827-04010	00000/0000	2-20043/0725	04/28/77	90	1524	4022N	08535E	50.7	122.4	GGGG		154	32
2827-04013	00000/0000	2-20043/0726	04/28/77	90	1524	3857N	08506E	51.2	120.4	FGGG		154	33
2827-04015	00000/0000	2-20043/0727	04/28/77	90	1524	3731N	08438E	51.7	118.5	FGGG		154	34
2827-04022	00000/0000	2-20043/0728	04/28/77	80	1524	3605N	08411E	52.1	116.5	GGGG		154	35
2827-04024	00000/0000	2-20043/0729	04/28/77	90	1524	3439N	08344E	52.5	114.4	GGGG		154	36
2827-04031	00000/0000	2-20043/0730	04/28/77	80	1524	3313N	08318E	52.8	112.4	GGGG		154	37
2827-04033	00000/0000	2-20043/0731	04/28/77	70	1524	3148N	08253E	53.0	110.3	GGGG		154	38
2827-04040	00000/0000	2-20043/0732	04/28/77	70	1524	3021N	08228E	53.3	108.2	GGGG		154	39
2827-04042	00000/0000	2-20043/0733	04/28/77	40	1524	2855N	08203E	53.4	106.1	GGGG		154	40
2827-04045	00000/0000	2-20043/0734	04/28/77	0	1524	2729N	08140E	53.6	104.0	GGGG		154	41
2827-04051	00000/0000	2-20043/0735	04/28/77	0	1524	2602N	08117E	53.6	101.9	GGGG		154	42
2827-04054	00000/0000	2-20043/0736	04/28/77	10	1524	2436N	08055E	53.7	99.8	GGGG		154	43
2827-04060	00000/0000	2-20043/0737	04/28/77	10	1524	2310N	08033E	53.6	97.7	FGGG		154	44
2827-04063	00000/0000	2-20043/0738	04/28/77	10	1524	2144N	08010E	53.6	95.6	GGGG		154	45
2827-04065	00000/0000	2-20043/0739	04/28/77	10	1524	2017N	07948E	53.4	93.6	FGGG		154	46
2827-04072	00000/0000	2-20043/0740	04/28/77	10	1524	1850N	07927E	53.3	91.5	FGGF		154	47
2827-04074	00000/0000	2-20043/0741	04/28/77	10	1524	1723N	07905E	53.0	89.5	GGGG		154	48
2827-04081	00000/0000	2-20043/0742	04/28/77	10	1524	1556N	07844E	52.8	87.6	FGGF		154	49
2827-04083	00000/0000	2-20043/0743	04/28/77	10	1524	1430N	07823E	52.4	85.6	FGGG		154	50
2827-04090	00000/0000	2-20043/0744	04/28/77	20	1524	1303N	07803E	52.1	83.7	GGGG		154	51
2827-04092	00000/0000	2-20043/0745	04/28/77	30	1524	1136N	07742E	51.7	81.9	GGGG		154	52
2827-05401	00000/0000	2-20043/0746	04/28/77	0	1525	5432N	06552E	43.9	140.2	FGFF		172	22
2827-05403	00000/0000	2-20043/0747	04/28/77	0	1525	5307N	06507E	44.7	138.5	FGFG		172	23
2827-05410	00000/0000	2-20043/0748	04/28/77	0	1525	5143N	06425E	45.5	136.8	FGGG		172	24
2827-05412	00000/0000	2-20043/0749	04/28/77	0	1525	5018N	06344E	46.3	135.1	FGGG		172	25
2827-05415	00000/0000	2-20043/0750	04/28/77	0	1525	4853N	06306E	47.0	133.3	GGGG		172	26
2827-05421	00000/0000	2-20043/0751	04/28/77	0	1525	4728N	06229E	47.7	131.6	GGGG		172	27
2827-05424	00000/0000	2-20043/0752	04/28/77	10	1525	4603N	06154E	48.4	129.8	GGGG		172	28
2827-05430	00000/0000	2-20043/0753	04/28/77	10	1525	4438N	06120E	49.0	128.0	FGGG		172	29
2827-05433	00000/0000	2-20043/0754	04/28/77	20	1525	4313N	06049E	49.7	126.1	GGGF		172	30
2827-05435	00000/0000	2-20043/0755	04/28/77	10	1525	4147N	06017E	50.2	124.2	GGGG		172	31
2827-05442	00000/0000	2-20043/0756	04/28/77	10	1525	4022N	05947E	50.8	122.3	FGGG		172	32
2827-05444	00000/0000	2-20043/0757	04/28/77	10	1525	3856N	05918E	51.2	120.4	GGGG		172	33

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANKS=BAD NOT AVAILABLE. G=GOOD. P=POOR. F=FAIR.
 MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

22107 JUN 27, 77

LANDSAT-2
OBSERVATION ID LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0045

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	PRINCIPAL POINT OF IMAGE LONG	SUN ELEV.	SUN AZIM.	IMAGE QUAL RBV MSS 123 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2827-05451	00000/0000 2-20043/0758	04/28/77	10	1525	3730N	05850E	51.7	118.4	GGGG			172	34
2827-05453	00000/0000 2-20043/0759	04/28/77	10	1525	3604N	05823E	52.1	114.4	GGGG			172	35
2827-05460	00000/0000 2-20043/0760	04/28/77	10	1525	3438N	05757E	52.5	114.4	GGGG			172	36
2827-05462	00000/0000 2-20043/0761	04/28/77	10	1525	3313N	05730E	52.8	112.4	GGGG			172	37
2827-05465	00000/0000 2-20043/0762	04/28/77	10	1525	3147N	05705E	53.1	110.3	FFGF			172	38
2827-05471	00000/0000 2-20043/0763	04/28/77	10	1525	3021N	05640E	53.3	108.2	GGGG			172	39
2827-05474	00000/0000 2-20043/0764	04/28/77	10	1525	2854N	05616E	53.5	106.1	GGGG			172	40
2827-05480	00000/0000 2-20043/0790	04/28/77	10	1525	2728N	05553E	53.6	104.0	G			172	41
2827-05483	00000/0000 2-20043/0791	04/28/77	10	1525	2602N	05530E	53.7	101.9	FFGF			172	42
2827-07223	00000/0000 2-20043/0659	04/28/77	50	1526	5718N	04139E	42.3	143.6	GGGG			190	20
2827-07230	00000/0000 2-20043/0660	04/28/77	90	1526	5554N	04049E	43.1	141.9	GGGG			190	21
2827-07232	00000/0000 2-20043/0661	04/28/77	60	1526	5430N	04002E	44.0	140.2	GGGG			190	22
2827-07235	00000/0000 2-20043/0662	04/28/77	50	1526	5306N	03917E	44.8	138.5	GGGG			190	23
2827-07241	00000/0000 2-20043/0663	04/28/77	70	1526	5142N	03834E	45.6	126.8	GGGG			190	24
2827-07244	00000/0000 2-20043/0664	04/28/77	80	1526	5018N	03754E	46.3	125.0	GGGG			190	25
2827-07250	00000/0000 2-20043/0665	04/28/77	80	1526	4853N	03715E	47.1	123.3	GGGG			190	26
2827-07253	00000/0000 2-20043/0666	04/28/77	70	1526	4728N	03638E	47.8	121.5	GGGG			190	27
2827-07255	00000/0000 2-20043/0667	04/28/77	60	1526	4603N	03603E	48.4	119.8	GGGG			190	28
2827-07262	00000/0000 2-20043/0668	04/28/77	50	1526	4437N	03530E	49.1	117.9	GGGG			190	29
2827-14172	00000/0000 2-20043/0819	04/28/77	90	1530	5142N	06439W	45.6	136.7	G			11	24
2827-14174	00000/0000 2-20043/0820	04/28/77	90	1530	5017N	06521W	46.4	135.0	GGGG			11	25
2827-14181	00000/0000 2-20043/0821	04/28/77	90	1530	4852N	06400W	47.1	133.2	GGGG			11	26
2827-14213	00000/0000 2-20043/0822	04/28/77	10	1530	3729N	07015W	51.6	118.3	GGGG			11	34
2827-14215	00000/0000 2-20043/0823	04/28/77	10	1530	3604N	07042W	52.2	116.3	GGGG			11	35
2827-14222	00000/0000 2-20043/0824	04/28/77	10	1530	3438N	07105W	52.6	114.3	GGGG			11	36
2827-14224	00000/0000 2-20043/0825	04/28/77	20	1530	3311N	07135W	52.9	112.2	GGGG			11	37
2827-14231	00000/0000 2-20043/0826	04/28/77	10	1530	3145N	07200W	53.1	110.1	GGGG			11	38
2827-14233	00000/0000 2-20043/0827	04/28/77	10	1530	3020N	07225W	53.4	108.0	GGGG			11	39
2827-14240	00000/0000 2-20043/0828	04/28/77	10	1530	2854N	07249W	53.5	105.9	GGGG			11	40
2827-14242	00000/0000 2-20043/0836	04/28/77	10	1530	2727N	07313W	53.6	103.8	GG			11	41
2827-14245	00000/0000 2-20043/0829	04/28/77	20	1530	2601N	07336W	53.7	101.7	GGGG	H		11	42
2827-14251	00000/0000 2-20043/0830	04/28/77	30	1530	2435N	07359W	53.7	99.6	GGGG	H		11	43
2827-14254	00000/0000 2-20043/0831	04/28/77	40	1530	2309N	07421W	53.7	97.5	GGGG	H		11	44
2827-14260	00000/0000 2-20043/0832	04/28/77	30	1530	2142N	07443W	53.6	95.4	GGGG	H		11	45
2827-16001	00000/0000 2-20043/0833	04/28/77	10	1531	5306N	08947W	44.9	138.4	GGGG			29	23
2827-16003	00000/0000 2-20043/0834	04/28/77	0	1531	5141N	09030W	45.7	136.7	GGGG			29	24

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANKS, BAND NOT AVAILABLE. G=GOOD, P=POOR, F=FAIR.
 MSS DATA MODE (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN (BLANK)=LOW GAIN, H=HIGH GAIN

22107 JUN 27, 177

LANDSAT-2
OBSERVATION ID LISTING
FOR NNN-US
FROM 05/01/77 TO 05/31/77

PAGE 0046

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	PRINCIPAL POINT OF IMAGE LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV	MSS MSS DATA MODE	MSS MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2827-16010	00000/0000	2-20043/0835	04/28/77	0	1531	5017N	09110W	46.4	135.0	GGGG			29	25
2827-16083	00000/0000	2-20043/0855	04/28/77	40	1531	2434N	09947W	53.7	99.6	GGGG			29	43
2827-17344	00000/0000	2-20043/0792	04/28/77	10	1532	7934N	06739W	24.3	198.2	GGGG			48	2
2827-17432	00000/0000	2-20043/0881	04/28/77	0	1532	5306N	11536W	44.9	138.4	GGGG			47	23
2827-17435	00000/0000	2-20043/0882	04/28/77	10	1532	5142N	11619W	45.7	136.7	GGGG			47	24
2827-17441	00000/0000	2-20043/0883	04/28/77	0	1532	5017N	11659W	46.4	135.0	GGGG			47	25
2827-21004	00000/0000	2-20043/0884	04/28/77	10	1534	8016N	11151W	23.2	205.9	PGGG			67	248
2827-21011	00000/0000	2-20043/0885	04/28/77	30	1534	7935N	11913W	24.3	198.3	FGGG			85	2
2827-21013	00000/0000	2-20043/0886	04/28/77	30	1534	7845N	12537W	25.4	191.7	GGGG			84	3
2827-21025	00000/0000	2-20043/0887	04/28/77	0	1534	7541N	13952W	28.6	176.5	FFFF			84	6
2827-21031	00000/0000	2-20043/0888	04/28/77	0	1534	7432N	14320W	29.7	172.6	GGGG			84	7
2827-21034	00000/0000	2-20043/0889	04/28/77	10	1534	7319N	14621W	30.8	169.3	GGGG			84	8
2827-21040	00000/0000	2-20043/0890	04/28/77	10	1534	7205N	14859W	31.8	166.2	GGGG			84	9
2828-02230	00000/0000	2-20043/0793	04/29/77	10	1537	4148N	11029E	50.4	124.0	FGGG			137	31
2828-02233	00000/0000	2-20043/0794	04/29/77	0	1537	4023N	10959E	51.0	122.1	GGGG			137	32
2828-02235	00000/0000	2-20043/0795	04/29/77	40	1537	3858N	10930E	51.4	120.2	FGGG			137	33
2828-02242	00000/0000	2-20043/0796	04/29/77	70	1537	3732N	10901E	51.9	118.2	GGGG			137	34
2828-02244	00000/0000	2-20043/0797	04/29/77	90	1537	3606N	10834E	52.3	116.2	GGFG			137	35
2828-02251	00000/0000	2-20043/0798	04/29/77	90	1537	3440N	10808E	52.7	114.1	GGGG			137	36
2828-02253	00000/0000	2-20043/0799	04/29/77	100	1537	3314N	10742E	53.0	112.1	GGGG			137	37
2828-02260	00000/0000	2-20043/0800	04/29/77	100	1537	3148N	10717E	53.2	110.0	GGGG			137	38
2828-02262	00000/0000	2-20043/0801	04/29/77	100	1537	3022N	10652E	53.4	107.9	FGGG			137	39
2828-02265	00000/0000	2-20043/0802	04/29/77	0	1537	2856N	10628E	53.6	105.8	FGGG			137	40
2828-02271	00000/0000	2-20043/0803	04/29/77	90	1537	2729N	10604E	53.7	103.6	GGGG			137	41
2828-02274	00000/0000	2-20043/0804	04/29/77	70	1537	2603N	10541E	53.8	101.5	GGGG			137	42
2828-02280	00000/0000	2-20043/0805	04/29/77	60	1537	2437N	10518E	53.8	99.4	GGGG			137	43
2828-02283	00000/0000	2-20043/0806	04/29/77	60	1537	2311N	10456E	53.8	97.3	GGGG			137	44
2828-02335	00000/0000	2-20043/0807	04/29/77	30	1537	0423N	10025E	49.0	73.1	GGGG			137	57
2828-02342	00000/0000	2-20043/0808	04/29/77	20	1537	0257N	10005E	48.3	71.6	FGFG			137	58
2828-02344	00000/0000	2-20043/0809	04/29/77	40	1537	0130N	09945E	47.6	70.1	GGGG			137	59
2828-04014	00000/0000	2-20043/0961	04/29/77	30	1538	5719N	09152E	42.5	143.5	GGGG			155	20
2828-04021	00000/0000	2-20043/0962	04/29/77	30	1538	5556N	09102E	43.4	141.8	GGGG			155	21
2828-04023	00000/0000	2-20043/0963	04/29/77	10	1538	5432N	09014E	44.2	140.1	GGGG			155	22
2828-04030	00000/0000	2-20043/0964	04/29/77	0	1538	5308N	08929E	45.0	138.4	GGGG			155	23
2828-04032	00000/0000	2-20043/0049	04/29/77	0	1538	5143N	08847E	45.8	136.7	FFGG			155	24
2828-04035	00000/0000	2-20043/0050	04/29/77	0	1538	5019N	08806E	46.6	134.9	FGGG			155	25

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANKS, BAND NOT AVAILABLE, G=GOOD, P=POOR, F=FAIR.
 MSS DATA MODE (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN (BLANK)=LOW GAIN, H=HIGH GAIN

22:07 JUN 27, 77

LANDSAT-2
OBSERVATION ID LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0047

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT LONG	SUN ELEV.	SUN AZIM.	IMAGE QUAL RBV MSS 123 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2828-04041	00000/0000	2-20043/0051	04/29/77	0	1538	4855N 08728E	47.3	133.2	FFFF			155	26
2828-04044	00000/0000	2-20043/0052	04/29/77	10	1538	4730N 08651E	48.0	131.4	FFFF			155	27
2828-04050	00000/0000	2-20043/0053	04/29/77	30	1538	4604N 08616E	48.7	129.6	FFFF			155	28
2828-04053	00000/0000	2-20043/0054	04/29/77	20	1538	4439N 08543E	49.3	127.7	FFFF			155	29
2828-04055	00000/0000	2-20043/0055	04/29/77	50	1538	4314N 08511E	49.9	125.9	FFFF			155	30
2828-04062	00000/0000	2-20043/0056	04/29/77	50	1538	4149N 08440E	50.5	124.0	FFFF			155	31
2828-04064	00000/0000	2-20043/0057	04/29/77	30	1538	4023N 08410E	51.0	122.1	FFF			155	32
2828-04071	00000/0000	2-20043/0058	04/29/77	40	1538	3857N 08340E	51.5	120.1	GGF			155	33
2828-04073	00000/0000	2-20043/0059	04/29/77	80	1538	3731N 08312E	51.9	118.1	FGGF			155	34
2828-04080	00000/0000	2-20043/0060	04/29/77	90	1538	3605N 08244E	52.3	116.1	GFGG			155	35
2828-04082	00000/0000	2-20043/0061	04/29/77	70	1538	3440N 08218E	52.7	114.1	GFGG			155	36
2828-04085	00000/0000	2-20043/0062	04/29/77	60	1538	3313N 08152E	53.0	112.0	FGGG			155	37
2828-04091	00000/0000	2-20043/0063	04/29/77	60	1538	3147N 08127E	53.2	109.9	FGGG			155	38
2828-04094	00000/0000	2-20043/0064	04/29/77	70	1538	3021N 08102E	53.5	107.8	GGGG			155	39
2828-04100	00000/0000	2-20043/0065	04/29/77	90	1538	2855N 08038E	53.6	105.7	GGGG			155	40
2828-04103	00000/0000	2-20043/0066	04/29/77	70	1538	2729N 08015E	53.7	103.6	GGGG			155	41
2828-04105	00000/0000	2-20043/0067	04/29/77	10	1538	2603N 07952E	53.8	101.5	GGGG			155	42
2828-04112	00000/0000	2-20043/0068	04/29/77	0	1538	2436N 07929E	53.8	99.4	FFGF			155	43
2828-04114	00000/0000	2-20043/0069	04/29/77	20	1538	2310N 07907E	53.8	97.2	FFGF			155	44
2828-04121	00000/0000	2-20043/0070	04/29/77	40	1538	2144N 07845E	53.7	95.2	GGFF			155	45
2828-04123	00000/0000	2-20043/0071	04/29/77	20	1538	2017N 07823E	53.5	93.1	GGGF			155	46
2828-04130	00000/0000	2-20043/0072	04/29/77	10	1538	1851N 07802E	53.4	91.0	FFGF			155	47
2828-04132	00000/0000	2-20043/0073	04/29/77	20	1538	1724N 07740E	53.1	89.0	FGGG			155	48
2828-04135	00000/0000	2-20043/0074	04/29/77	0	1538	1557N 07719E	52.8	87.1	FGGF			155	49
2828-04141	00000/0000	2-20043/0075	04/29/77	10	1538	1431N 07658E	52.5	85.1	GGGF			155	50
2828-04144	00000/0000	2-20043/0076	04/29/77	10	1538	1304N 07637E	52.1	83.2	FGGF			155	51
2828-04150	00000/0000	2-20043/0077	04/29/77	30	1538	1137N 07616E	51.7	81.4	FGGF			155	52
2828-04194	00000/0000	2-20043/0965	04/29/77	40	1538	0417S 07237E	44.6	64.9	GGGF	H		155	63
2828-04200	00000/0000	2-20043/0966	04/29/77	30	1538	0543S 07217E	43.7	63.7	GGGF	H		155	64
2828-04203	00000/0000	2-20043/0967	04/29/77	40	1538	0711S 07157E	42.9	62.7	GGGG	H		155	65
2828-05455	00000/0000	2-20043/0078	04/29/77	10	1539	5431N 06424E	44.2	140.1	PPPP			173	22
2828-05464	00000/0000	2-20043/0079	04/29/77	0	1539	5142N 06257E	45.8	136.6	FFFF			173	24
2828-05470	00000/0000	2-20043/0080	04/29/77	0	1539	5018N 06216E	46.6	134.9	FFFF			173	25
2828-05473	00000/0000	2-20043/0081	04/29/77	0	1539	4853N 06138E	47.3	133.1	FFFF			173	26
2828-05491	00000/0000	2-20043/0082	04/29/77	0	1539	4313N 05921E	49.9	125.9	FFFF			173	30
2828-05493	00000/0000	2-20043/0083	04/29/77	10	1539	4147N 05850E	50.5	124.0	FFFF			173	31

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANKS=BAND NOT AVAILABLE. G=GOOD. P=POOR. F=FAIR.
 MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

22:07 JUN 27, '77

LANDSAT-2
OBSERVATION ID LISTING
FOR NNN-US
FROM 05/01/77 TO 05/31/77

PAGE 0048

OBSERVATION ID	MICROFILM ROLL NO., POSITION IN ROLL RBV	ROLL NO., MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV MSS 123 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2828-05511	00000/0000	2-20043/0084	04/29/77	10	1539	3605N 05656E	52.3	116.1	FGFF			173	25
2828-05514	00000/0000	2-20043/0085	04/29/77	10	1539	3439N 05630E	52.7	114.0	FGGF			173	26
2828-05520	00000/0000	2-20043/0086	04/29/77	20	1539	3313N 05604E	53.0	112.0	FFGF			173	37
2828-05523	00000/0000	2-20043/0087	04/29/77	40	1539	3147N 05538E	53.3	109.9	FGFF			173	38
2828-05525	00000/0000	2-20043/0088	04/29/77	40	1539	3021N 05514E	53.5	107.8	FFFF			173	39
2828-05532	00000/0000	2-20043/0968	04/29/77	90	1539	2855N 05450E	53.6	105.7	GGGF			173	40
2828-05534	00000/0000	2-20043/0969	04/29/77	90	1539	2729N 05427E	53.8	103.5	GGGF			173	41
2828-05541	00000/0000	2-20043/0970	04/29/77	10	1539	2603N 05404E	53.8	101.4	GGGF			173	42
2828-07275	00000/0000	2-20043/0670	04/29/77	70	1540	5842N 04109E	41.7	145.2	GGGF			191	19
2828-07281	00000/0000	2-20043/0671	04/29/77	60	1540	5718N 04015E	42.6	143.5	GGGF			191	20
2828-07284	00000/0000	2-20043/0672	04/29/77	30	1540	5554N 03925E	43.4	141.8	GGGF			191	21
2828-07290	00000/0000	2-20043/0673	04/29/77	40	1540	5431N 03837E	44.3	140.0	GGGF			191	22
2828-07293	00000/0000	2-20043/0674	04/29/77	80	1540	5307N 03753E	45.1	138.3	PFGG			191	23
2828-07295	00000/0000	2-20043/0675	04/29/77	30	1540	5142N 03710E	45.8	136.6	GGGF			191	24
2828-07302	00000/0000	2-20043/0676	04/29/77	10	1540	5018N 03630E	46.6	134.9	FFGF			191	25
2828-07304	00000/0000	2-20043/0677	04/29/77	10	1540	4853N 03551E	47.3	133.1	GGGF			191	26
2828-07311	00000/0000	2-20043/0678	04/29/77	0	1540	4728N 03514E	48.0	131.3	GGGF			191	27
2828-07313	00000/0000	2-20043/0679	04/29/77	0	1540	4603N 03439E	48.7	129.5	GGGF			191	28
2828-07320	00000/0000	2-20043/0680	04/29/77	10	1540	4438N 03406E	49.3	127.7	FFFF			191	29
2828-07322	00000/0000	2-20043/0681	04/29/77	30	1540	4312N 03333E	49.9	125.8	FFFF			191	30
2828-12335	00000/0000	2-20043/0971	04/29/77	10	1543	7049N 02335W	33.0	163.5	FGGF			245	10
2828-12342	00000/0000	2-20043/0972	04/29/77	10	1543	6932N 02539W	34.1	161.0	GGGF			245	11
2828-14232	00000/0000	2-20043/0903	04/29/77	80	1544	5018N 06646W	46.7	134.8	GGGF			12	25
2828-14235	00000/0000	2-20043/0904	04/29/77	20	1544	4853N 06725W	47.4	133.1	FGGF			12	26
2828-14280	00000/0000	2-20043/0905	04/29/77	90	1544	3439N 07234W	52.8	113.9	GGGF			12	36
2828-14282	00000/0000	2-20043/0906	04/29/77	40	1544	3313N 07259W	53.1	111.8	FGGF			12	37
2828-14285	00000/0000	2-20043/0907	04/29/77	0	1544	3146N 07325W	53.3	109.7	FFFF			12	38
2828-14291	00000/0000	2-20043/0908	04/29/77	10	1544	3020N 07349W	53.5	107.6	FGGF			12	39
2828-14294	00000/0000	2-20043/0909	04/29/77	10	1544	2854N 07414W	53.7	105.5	GGGF			12	40
2828-14300	00000/0000	2-20043/0915	04/29/77	20	1544	2728N 07437W	53.3	103.4	GG		H	12	41
2828-14303	00000/0000	2-20043/0910	04/29/77	30	1544	2601N 07500W	53.9	101.2	GGGF		H	12	42
2828-14305	00000/0000	2-20043/0911	04/29/77	30	1544	2435N 07523W	53.9	99.1	GGGF		H	12	43
2828-14312	00000/0000	2-20043/0912	04/29/77	30	1544	2309N 07546W	53.8	97.0	GGGF		H	12	44
2828-16061	00000/0000	2-20043/0913	04/29/77		1545	5142N 09157W	46.0	136.5	GGGF			30	24
2828-16064	00000/0000	2-20043/0914	04/29/77	10	1545	5017N 09237W	46.7	134.8	GGGF			30	25
2828-17402	00000/0000	2-20043/0973	04/29/77	40	1546	7934N 06912W	24.6	198.3	GGGF			50	2

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 MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

22107 JUN 27, 177

LANDSAT-2
OBSERVATION ID LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0049

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV MSS 123 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME RBN NUMBER
2828-17493	00000/0000	2-20043/0981	04/29/77	90	1546	5141N 11747W	46.0	136.5	FGGG			48	24
2828-17495	00000/0000	2-20043/0982	04/29/77	70	1546	5017N 11827W	46.7	134.8	GGGG			48	25
2828-21062	00000/0000	2-20043/0810	04/29/77	30	1548	8016N 11308W	23.5	206.1	FGGG			68	248
2828-21065	00000/0000	2-20043/0811	04/29/77	10	1548	7935N 12032W	24.6	198.4	GGGG			85	2
2828-21071	00000/0000	2-20043/0812	04/29/77	10	1548	7845N 12658W	25.7	191.7	GGGG			85	3
2828-21074	00000/0000	2-20043/0813	04/29/77	0	1548	7749N 13229W	26.8	185.9	GGGG			85	4
2828-21080	00000/0000	2-20043/0814	04/29/77	0	1548	7647N 13711W	27.9	180.9	GGGF			85	5
2828-21083	00000/0000	2-20043/0815	04/29/77	0	1548	7540N 14113W	28.9	176.5	GGGG			85	6
2828-21085	00000/0000	2-20043/0816	04/29/77	10	1548	7431N 14441W	30.0	172.7	GGGG			85	7
2828-21092	00000/0000	2-20043/0817	04/29/77	10	1548	7319N 14742W	31.1	169.3	GGGF			84	8
2828-21094	00000/0000	2-20043/0818	04/29/77	10	1548	7205N 15020W	32.1	166.2	GGGG			84	9
2829-02284	00000/0000	2-20043/0974	04/30/77	100	1551	4149N 10903E	50.7	123.7	FGFF			138	31
2829-02291	00000/0000	2-20043/0975	04/30/77	90	1551	4023N 10833E	51.2	121.8	FGFF			138	32
2829-02293	00000/0000	2-20043/0976	04/30/77	100	1551	3858N 10804E	51.7	119.8	FGFF			138	33
2829-02300	00000/0000	2-20043/0977	04/30/77	100	1551	3732N 10736E	52.1	117.8	FFFF			138	34
2829-02302	00000/0000	2-20043/0978	04/30/77	100	1551	3606N 10709E	52.5	115.8	FFFF			138	35
2829-02305	00000/0000	2-20043/0979	04/30/77	100	1551	3440N 10642E	52.9	113.7	FFFF			138	36
2829-02311	00000/0000	2-20043/0980	04/30/77	100	1551	3314N 10616E	53.2	111.7	FFFF			138	37
2829-02320	00000/0000	2-20043/0983	04/30/77	90	1551	3072N 10526E	53.6	107.4	FFFF			138	39
2829-02323	00000/0000	2-20043/0984	04/30/77	100	1551	2856N 10502E	53.8	105.3	FFFF			138	40
2829-02325	00000/0000	2-20043/0985	04/30/77	50	1551	2730N 10439E	53.9	103.2	GFFG			138	41
2829-02332	00000/0000	2-20043/0986	04/30/77	10	1551	2604N 10415E	53.9	101.1	GGGG			138	42
2829-02334	00000/0000	2-20043/0987	04/30/77	10	1551	2437N 10352E	53.9	98.9	GFGG			138	43
2829-02341	00000/0000	2-20043/0988	04/30/77	40	1551	2311N 10330E	53.9	96.8	GGGG			138	44
2829-04090	00000/0000	2-20043/0916	04/30/77	40	1552	5144N 08719E	46.1	136.5	GGFF			156	24
2829-04093	00000/0000	2-20043/0917	04/30/77	30	1552	5019N 08638E	46.8	134.7	GGGG			156	25
2829-04095	00000/0000	2-20043/0918	04/30/77	10	1552	4854N 08600E	47.6	133.0	GGGG			156	26
2829-04102	00000/0000	2-20043/0919	04/30/77	10	1552	4729N 08524E	48.3	131.2	GGGG			156	27
2829-04104	00000/0000	2-20043/0920	04/30/77	0	1552	4604N 08449E	48.9	129.4	FGGG			156	28
2829-04111	00000/0000	2-20043/0921	04/30/77	0	1552	4439N 08416E	49.6	127.5	GPP			156	29
2829-04113	00000/0000	2-20043/0922	04/30/77	30	1552	4314N 08344E	50.2	125.6	GGGG			156	30
2829-04120	00000/0000	2-20043/0923	04/30/77	30	1552	4149N 08313E	50.7	123.7	GGGG			156	31
2829-04125	00000/0000	2-20043/0924	04/30/77	40	1552	3857N 08214E	51.7	119.8	GGGG			156	33
2829-04131	00000/0000	2-20043/0925	04/30/77	10	1552	3731N 08146E	52.1	117.8	FGGG			156	34
2829-04134	00000/0000	2-20043/0926	04/30/77	10	1552	3605N 08119E	52.5	115.8	FGGG			156	35
2829-04140	00000/0000	2-20043/0927	04/30/77	20	1552	3439N 08052E	52.9	113.7	GFGG			156	36

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
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 MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

22107 JUN 27, '77

LANDSAT-2
OBSERVATION ID LISTING
FOR NNN=US
FROM 05/01/77 TO 05/31/77

PAGE 0050

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	PRINCIPAL POINT OF IMAGE LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2829-04143	00000/0000 2-20043/0928	04/30/77	40	1552	3313N	08026E	53.2	111.6	GGGG			156	37
2829-04145	00000/0000 2-20043/0929	04/30/77	30	1552	3147N	08000E	53.4	109.5	GGFF			156	38
2829-04152	00000/0000 2-20043/0930	04/30/77	30	1552	3021N	07936E	53.6	107.4	GGGG			156	39
2829-04154	00000/0000 2-20043/0931	04/30/77	10	1552	2855N	07912E	53.8	105.3	GGGG			156	40
2829-04161	00000/0000 2-20043/0932	04/30/77	30	1552	2729N	07848E	53.9	103.1	GGGF			156	41
2829-04163	00000/0000 2-20043/0933	04/30/77	10	1552	2603N	07825E	53.9	101.0	FGGG			156	42
2829-04170	00000/0000 2-20043/0934	04/30/77	10	1552	2437N	07803E	54.0	98.9	FGGG			156	43
2829-04172	00000/0000 2-20043/0935	04/30/77	0	1552	2311N	07740E	53.9	96.8	FGGG			156	44
2829-04175	00000/0000 2-20043/0936	04/30/77	10	1552	2144N	07718E	53.8	94.7	GFGG			156	45
2829-04181	00000/0000 2-20043/0937	04/30/77	10	1552	2017N	07656E	53.6	92.6	FGGG			156	46
2829-04184	00000/0000 2-20043/0938	04/30/77	10	1552	1841N	07634E	53.4	90.5	GFGF			156	47
2829-04190	00000/0000 2-20043/0939	04/30/77	10	1552	172.N	07613E	53.2	88.5	GGGF			156	48
2829-04193	00000/0000 2-20043/0940	04/30/77	10	1552	1557N	07551E	52.9	86.5	GGFG			156	49
2829-04195	00000/0000 2-20043/0941	04/30/77	10	1552	1430N	07530E	52.6	84.6	GGGG			156	50
2829-04202	00000/0000 2-20043/0942	04/30/77	30	1552	1303N	07510E	52.2	82.7	GFGF			156	51
2829-04204	00000/0000 2-20043/0943	04/30/77	20	1552	1136N	07450E	51.7	80.9	GGGG			156	52
2829-04252	00000/0000 2-20043/0892	04/30/77	30	1552	0416S	07110E	44.5	64.5	G GG	H		156	63
2829-04254	00000/0000 2-20043/0893	04/30/77	30	1552	0543S	07050E	43.6	63.3	GGGG	H		156	64
2829-04261	00000/0000 2-20043/0894	04/30/77	30	1552	0710S	07031E	42.8	62.3	GGGG	H		156	65
2829-05504	00000/0000 2-20043/0895	04/30/77	40	1553	5720N	06438E	42.8	143.4	GGGG			174	20
2829-05510	00000/0000 2-20043/0896	04/30/77	40	1553	5556N	06347E	43.7	141.7	GGGG			174	21
2829-05513	00000/0000 2-20043/0944	04/30/77	10	1553	5432N	06259E	44.5	139.9	FGGG			174	22
2829-05515	00000/0000 2-20043/0945	04/30/77	0	1553	5308N	06214E	45.3	138.2	GFGG			174	23
2829-05522	00000/0000 2-20043/0946	04/30/77	0	1553	5144N	06132E	46.1	136.5	GGGG			174	24
2829-05524	00000/0000 2-20043/0947	04/30/77	0	1553	5019N	06051E	46.9	134.7	GFG			174	25
2829-05531	00000/0000 2-20043/0948	04/30/77	0	1553	4854N	06013E	47.6	132.9	FGGG			174	26
2829-05533	00000/0000 2-20043/0949	04/30/77	0	1553	4729N	05936E	48.3	131.1	GGGG			174	27
2829-05540	00000/0000 2-20043/0950	04/30/77	0	1553	4604N	05902E	48.9	129.3	GGGF			174	28
2829-05542	00000/0000 2-20043/0951	04/30/77	0	1553	4438N	05828E	49.6	127.5	GGFF			174	29
2829-05545	00000/0000 2-20043/0952	04/30/77	10	1553	4313N	05756E	50.2	125.6	GGGG			174	30
2829-05551	00000/0000 2-20043/0953	04/30/77	20	1553	4147N	05725E	50.7	123.7	GGGG			174	31
2829-05554	00000/0000 2-20043/0954	04/30/77	0	1553	4022N	05656E	51.2	121.7	FGGF			174	32
2829-05560	00000/0000 2-20043/0955	04/30/77	0	1553	3857N	05627E	51.7	119.8	FGGG			174	33
2829-05563	00000/0000 2-20043/0956	04/30/77	10	1553	3731N	05559E	52.2	117.8	GGGG			174	34
2829-05565	00000/0000 2-20043/0957	04/30/77	10	1553	3605N	05531E	52.6	115.7	GGFG			174	35
2829-05572	00000/0000 2-20043/0958	04/30/77	10	1553	3439N	05504E	52.9	113.7	GGGG			174	36

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
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 MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
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22:07 JUN 27, 77

LANDSAT-2
OBSERVATION ID LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0051

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT LONG	SUN ELEV.	SUN AZIM.	IMAGE=QUAL RBV MSS 123 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2829-05574	00000/0000	2-20043/0959	04/30/77	20	1553	3313N	05438E	53.2	111.6	GGGG		174	37
2829-05581	00000/0000	2-20043/0897	04/30/77	20	1553	3147N	05413E	53.5	109.5	GGGG		174	38
2829-05583	00000/0000	2-20043/0898	04/30/77	30	1553	3021N	05349E	53.7	107.4	GGGG		174	39
2829-07333	00000/0000	2-20043/1382	04/30/77	40	1554	5842N	03942E	42.0	145.1	GGGG		192	19
2829-07335	00000/0000	2-20043/1383	04/30/77	70	1554	5718N	03848E	42.9	143.4	GGGG		192	20
2829-07342	00000/0000	2-20043/1384	04/30/77	80	1554	5554N	03757E	43.7	141.6	GFGG		192	21
2829-07344	00000/0000	2-20043/1385	04/30/77	30	1554	5431N	03709E	44.5	139.9	GGGG		192	22
2829-07351	00000/0000	2-20043/1386	04/30/77	10	1554	5307N	03624E	45.4	138.2	GGGF		192	23
2829-07353	00000/0000	2-20043/1387	04/30/77	10	1554	5143N	03541E	46.1	136.4	GFGG		192	24
2829-07360	00000/0000	2-20043/1388	04/30/77	0	1554	5018N	03501E	46.9	134.7	GGGG		192	25
2829-07362	00000/0000	2-20043/1389	04/30/77	0	1554	4854N	03423E	47.6	132.9	FGGG		192	26
2829-07365	00000/0000	2-20043/1390	04/30/77	0	1554	4728N	03347E	48.3	131.1	FGGG		192	27
2829-07371	00000/0000	2-20043/1391	04/30/77	0	1554	4603N	03312E	49.0	129.3	GGGG		192	28
2829-07374	00000/0000	2-20043/1392	04/30/77	30	1554	4438N	03239E	49.6	127.4	GGGG		192	29
2829-14293	00000/0000	2-20043/0856	04/30/77	10	1558	4853N	06853W	47.7	132.9	GGGF		13	26
2829-14345	00000/0000	2-20043/0857	04/30/77	20	1558	3020N	07516W	53.7	107.2	GGGG		13	29
2829-14348	00000/0000	2-20043/0862	04/30/77	10	1558	2854N	07541W	53.9	105.1	FF		13	40
2829-14354	00000/0000	2-20043/0858	04/30/77	30	1558	2727N	07604W	54.0	102.9	GGGG	H	13	41
2829-14361	00000/0000	2-20043/0859	04/30/77	60	1558	2602N	07628W	54.0	100.8	GGGG	H	13	42
2829-14363	00000/0000	2-20043/0860	04/30/77	70	1558	2436N	07650W	54.0	98.7	GGGG	H	13	43
2829-14370	00000/0000	2-20043/0861	04/30/77	40	1558	2309N	07712W	54.0	96.5	GGGG	H	13	44
2829-17460	00000/0000	2-20043/0899	04/30/77	60	1560	7935N	07028W	24.9	198.3	GGGG		51	2
2829-17462	00000/0000	2-20043/0900	04/30/77	30	1560	7845N	07652W	26.0	191.7	GGGG		50	3
2829-17465	00000/0000	2-20043/0901	04/30/77	20	1560	7748N	08222W	27.1	185.9	GGGG		50	4
2829-17471	00000/0000	2-20043/0902	04/30/77	10	1560	7646N	08704W	28.1	180.8	GGGF		50	5
2829-17553	00000/0000	2-20043/0960	04/30/77	20	1560	5019N	11951W	47.0	134.6	GGGG		49	25
2830-02345	00000/0000	2-20043/0479	05/01/77	10	1565	4024N	10708E	51.4	121.0	GGGG		139	32
2830-02351	00000/0000	2-20043/0480	05/01/77	20	1565	3858N	10639E	51.9	119.5	FGGG		139	33
2830-02354	00000/0000	2-20043/0481	05/01/77	50	1565	3733N	10611E	52.3	117.5	FGGG		139	34
2830-02360	00000/0000	2-20043/0482	05/01/77	50	1565	3607N	10544E	52.7	115.4	GGGG		139	35
2830-02363	00000/0000	2-20043/0483	05/01/77	60	1565	3441N	10517E	53.1	113.4	GFGG		139	36
2830-02365	00000/0000	2-20043/0484	05/01/77	70	1565	3314N	10450E	53.4	111.3	GGGG		139	37
2830-02372	00000/0000	2-20043/0863	05/01/77	80	1565	3148N	10425E	53.6	109.2	GGGG		139	38
2830-02374	00000/0000	2-20043/0864	05/01/77	90	1565	3022N	10400E	53.8	107.0	GGGG		139	39
2830-02381	00000/0000	2-20043/0865	05/01/77	90	1565	2856N	10336E	53.9	104.9	GGGG		139	40
2830-02383	00000/0000	2-20043/0866	05/01/77	70	1565	2730N	10313E	54.0	102.7	GGGG		139	41

KEYS: CLOUD COVER X 0 TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANKS=BAND NOT AVAILABLE, G=GOOD, P=POOR, F=FAIR.
 MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

22:07 JUN 27, 1977

LANDSAT-2
OBSERVATION ID LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0052

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2830-02390	00000/0000	2-20043/0867	05/01/77	20	1565	2604N	10250E	54.1	100.6	GGGG	139	42
2830-02392	00000/0000	2-20043/0868	05/01/77	10	1565	2437N	10227E	54.1	98.5	GGGG	139	43
2830-02395	00000/0000	2-20043/0869	05/01/77	40	1565	2311N	10205E	54.0	96.3	GGGG	139	44
2830-04124	00000/0000	2-20043/0870	05/01/77	0	1566	5844N	08952E	42.2	145.0	GGGG	157	19
2830-04130	00000/0000	2-20043/0871	05/01/77	0	1566	5720N	08858E	43.1	143.3	GGGG	157	20
2830-04133	00000/0000	2-20043/0872	05/01/77	10	1566	5557N	08808E	43.9	141.5	GGGG	157	21
2830-04135	00000/0000	2-20043/0873	05/01/77	20	1566	5433N	08720E	44.8	139.8	GGGG	157	22
2830-05555	00000/0000	2-20043/0874	05/01/77	70	1567	5843N	06405E	42.2	145.0	GGGG	175	19
2830-05562	00000/0000	2-20043/0875	05/01/77	70	1567	5720N	06311E	43.1	143.3	GGGG	175	20
2830-05564	00000/0000	2-20043/0876	05/01/77	20	1567	5556N	06221E	44.0	141.5	GGGG	175	21
2830-06030	00000/0000	2-20043/0877	05/01/77	0	1567	3439N	05338E	53.1	113.3	GGGG	175	34
2830-06032	00000/0000	2-20043/0878	05/01/77	0	1567	3313N	05312E	53.4	111.2	GGGG	175	37
2830-06035	00000/0000	2-20043/0879	05/01/77	10	1567	3148N	05247E	53.6	109.1	GGGG	175	38
2830-06041	00000/0000	2-20043/0880	05/01/77	20	1567	3022N	05222E	53.8	106.9	GGGG	175	39
2830-14415	00000/0000	2-20043/0989	05/01/77	60	1572	2602N	07753W	54.2	100.3	GGGG	14	42
2830-14421	00000/0000	2-20043/0990	05/01/77	50	1572	2436N	07816W	54.1	98.2	GGGG	14	43
2830-14424	00000/0000	2-20043/0991	05/01/77	70	1572	2309N	07838W	54.1	96.0	GGGG	14	44
2830-17512	00000/0000	2-20043/0994	05/01/77	20	1574	8015N	06423W	24.1	206.0	FFGG	52	1
2830-17514	00000/0000	2-20043/0995	05/01/77	10	1574	7934N	07145W	25.2	198.4	FFGG	51	2
2830-18012	00000/0000	2-20043/0891	05/01/77	20	1574	5018N	12117W	47.3	134.4	GGGG	50	25
2830-21211	00000/0000	2-20043/1147	05/01/77	0	1576	7206N	15314W	32.7	166.2	GGGG	86	9
2831-00544	00000/0000	2-20043/0996	05/02/77	30	1578	4853N	13449E	48.1	132.6	FFGG	122	26
2831-00551	00000/0000	2-20043/0997	05/02/77	90	1578	4728N	13413E	48.8	130.7	FFGG	122	27
2831-00553	00000/0000	2-20043/0998	05/02/77	100	1578	4603N	13338E	49.4	128.9	FFGG	122	28
2831-00560	00000/0000	2-20043/0999	05/02/77	100	1578	4437N	13304E	50.0	127.0	FFGG	122	29
2831-00562	00000/0000	2-20043/1000	05/02/77	100	1578	4312N	13232E	50.6	125.1	FFGG	122	30
2831-02403	00000/0000	2-20043/1001	05/02/77	0	1579	4023N	10542E	51.7	121.2	FF	140	32
2831-02405	00000/0000	2-20043/1002	05/02/77	10	1579	3858N	10513E	52.1	119.2	FFGG	140	33
2831-02412	00000/0000	2-20043/1003	05/02/77	70	1579	3732N	10444E	52.6	117.1	GGGG	140	34
2831-02414	00000/0000	2-20043/1004	05/02/77	90	1579	3606N	10417E	52.9	115.1	GGGG	140	35
2831-02421	00000/0000	2-20043/1005	05/02/77	100	1579	3440N	10350E	53.3	113.0	GGGG	140	36
2831-02423	00000/0000	2-20043/1006	05/02/77	90	1579	3314N	10324E	53.6	110.9	FFGG	140	37
2831-02430	00000/0000	2-20043/1007	05/02/77	40	1579	3148N	10259E	53.8	108.7	GGGG	140	38
2831-02432	00000/0000	2-20043/1008	05/02/77	50	1579	3022N	10235E	54.0	106.6	GGGG	140	39
2831-02435	00000/0000	2-20043/1009	05/02/77	60	1579	2855N	10211E	54.1	104.4	GGGG	140	40
2831-02441	00000/0000	2-20043/1010	05/02/77	30	1579	2729N	10147E	54.2	102.3	GGGG	140	41

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANKS, BAND NOT AVAILABLE, G=GOOD, P=POOR, F=FAIR.
 MSS DATA MODE (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN (BLANK)=LOW GAIN, H=HIGH GAIN

22107 JUN 27, 177

LANDSAT-2
OBSERVATION ID LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0053

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	PRINCIPAL POINT OF IMAGE LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV MSS 123 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2831-02444	00000/0000	2-20043/1011	05/02/77	30	1579	2603N	10124E	54.2	100.1	GGGG			140	42
2831-02450	00000/0000	2-20043/1012	05/02/77	50	1579	2438N	10101E	54.2	98.0	GGGG			140	43
2831-02453	00000/0000	2-20043/1013	05/02/77	30	1579	2312N	10038E	54.1	95.8	GGGG			140	44
2831-04193	00000/0000	2-20043/1014	05/02/77	90	1580	5433N	08555E	45.1	139.7	GFG			158	22
2831-04200	00000/0000	2-20043/1055	05/02/77	90	1580	5309N	08511E	45.9	137.9	GG			158	23
2831-04202	00000/0000	2-20043/1025	05/02/77	90	1580	5144N	08428E	46.6	136.2	GGGG			158	24
2831-04205	00000/0000	2-20043/1026	05/02/77	90	1580	5020N	08348E	47.4	134.4	GGGG			158	25
2831-04211	00000/0000	2-20043/1027	05/02/77	90	1580	4855N	08309E	48.1	132.6	GGGG			158	26
2831-04214	00000/0000	2-20043/1028	05/02/77	50	1580	4730N	08233E	48.8	130.7	GGGG			158	27
2831-04220	00000/0000	2-20043/1029	05/02/77	30	1580	4605N	08158E	49.4	128.9	GGGG			158	28
2831-04223	00000/0000	2-20043/1030	05/02/77	10	1580	4439N	08125E	50.1	127.1	GFG			158	29
2831-04225	00000/0000	2-20043/1031	05/02/77	0	1580	4314N	08053E	50.7	125.1	GFG			158	30
2831-04232	00000/0000	2-20043/1032	05/02/77	0	1580	4149N	08021E	51.2	123.1	PFFF			158	31
2831-04234	00000/0000	2-20043/1033	05/02/77	0	1580	4023N	07952E	51.7	121.2	PFFF			158	32
2831-04241	00000/0000	2-20043/1034	05/02/77	0	1580	3857N	07923E	52.2	119.1	GGGG			158	33
2831-04243	00000/0000	2-20043/1035	05/02/77	10	1580	3731N	07855E	52.6	117.1	GGGG			158	34
2831-04250	00000/0000	2-20043/1056	05/02/77	30	1580	3606N	07828E	53.0	115.0	G			158	35
2831-04252	00000/0000	2-20043/1036	05/02/77	10	1580	3440N	07801E	53.3	112.9	GGG			158	36
2831-04255	00000/0000	2-20043/1037	05/02/77	20	1580	3314N	07735E	53.6	110.8	GGGG			158	37
2831-04261	00000/0000	2-20043/1038	05/02/77	20	1580	3147N	07710E	53.8	108.7	GGGG			158	38
2831-04264	00000/0000	2-20043/1039	05/02/77	10	1580	3022N	07646E	54.0	106.6	GGGG			158	39
2831-04270	00000/0000	2-20043/1040	05/02/77	0	1580	2856N	07621E	54.1	104.4	GGGG			158	40
2831-04273	00000/0000	2-20043/1041	05/02/77	0	1580	2730N	07557E	54.2	102.2	GGGG			158	41
2831-04275	00000/0000	2-20043/1042	05/02/77	0	1580	2603N	07534E	54.2	100.1	GGGG			158	42
2831-04282	00000/0000	2-20043/1043	05/02/77	10	1580	2437N	07511E	54.2	97.9	GGGG			158	43
2831-04284	00000/0000	2-20043/1044	05/02/77	20	1580	2310N	07448E	54.1	95.8	GGGG			158	44
2831-04291	00000/0000	2-20043/1045	05/02/77	30	1580	2144N	07426E	54.0	93.7	FFF			158	45
2831-04293	00000/0000	2-20043/1046	05/02/77	10	1580	2017N	07404E	53.8	91.6	GFGG			158	46
2831-04300	00000/0000	2-20043/1047	05/02/77	10	1580	1851N	07343E	53.6	89.5	GGGG			158	47
2831-04302	00000/0000	2-20043/1048	05/02/77	20	1580	1724N	07322E	53.3	87.5	GFGF			158	48
2831-06014	00000/0000	2-20043/0485	05/02/77	90	1581	5843N	06238E	42.5	144.9	GGGG			176	19
2831-06020	00000/0000	2-20043/0486	05/02/77	90	1581	5720N	06144E	43.4	143.2	GGGG			176	20
2831-06023	00000/0000	2-20043/0487	05/02/77	90	1581	5556N	06053E	44.3	141.4	GGGG			176	21
2831-06025	00000/0000	2-20043/0488	05/02/77	30	1581	5432N	06006E	45.1	139.7	GFGF			176	22
2831-06032	00000/0000	2-20043/1049	05/02/77	60	1581	5307N	05921E	45.9	137.9	GGGG			176	23
2831-06034	00000/0000	2-20043/1050	05/02/77	20	1581	5143N	05839E	46.7	136.1	GGGG			176	24

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANKS=BAND NOT AVAILABLE, G=GOOD, P=POOR, F=FAIR.
 MSS DATA MODE (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN (BLANK)=LOW GAIN, H=HIGH GAIN

22107 JUN 27, '77

LANDSAT-2
OBSERVATION ID LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0054

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV MSS 123 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2831-06041	00000/0000	2-20043/1051	05/02/77	10	1581	5019N	05759E	47.4 134.3	FGGG			176	25
2831-06043	00000/0000	2-20043/1052	05/02/77	0	1581	4854N	05720E	48.1 132.5	GGGG			176	26
2831-06050	00000/0000	2-20043/1053	05/02/77	10	1581	4729N	05644E	48.8 130.7	GGGG			176	27
2831-06064	00000/0000	2-20043/1054	05/02/77	0	1581	4147N	05431E	51.2 123.1	FFFF			176	31
2831-06073	00000/0000	2-20043/0489	05/02/77	10	1581	3856N	05333E	52.2 119.1	FFGG			176	33
2831-07443	00000/0000	2-20043/1322	05/02/77	40	1582	6004N	03745E	41.7 146.7	GGGG			194	18
2831-07445	00000/0000	2-20043/1323	05/02/77	20	1582	5841N	03647E	42.6 144.9	GGGG			194	19
2831-07452	00000/0000	2-20043/1324	05/02/77	0	1582	5718N	03553E	43.4 143.1	GGGG			194	20
2831-07454	00000/0000	2-20043/1325	05/02/77	10	1582	5555N	03503E	44.3 141.4	GGGG			194	21
2831-07461	00000/0000	2-20043/1326	05/02/77	0	1582	5431N	03415E	45.1 139.6	GFGG			194	22
2831-07463	00000/0000	2-20043/1327	05/02/77	0	1582	5306N	03331E	45.9 137.9	GGGG			194	23
2831-07470	00000/0000	2-20043/1328	05/02/77	0	1582	5142N	03248E	46.7 136.1	GGGG			194	24
2831-07472	00000/0000	2-20043/1329	05/02/77	0	1582	5018N	03208E	47.4 134.3	GGGG			194	25
2831-07475	00000/0000	2-20043/1330	05/02/77	0	1582	4853N	03130E	48.2 132.5	GFGG			194	26
2831-07481	00000/0000	2-20043/1331	05/02/77	0	1582	4728N	03053E	48.8 130.7	GGGG			194	27
2831-07484	00000/0000	2-20043/1332	05/02/77	0	1582	4603N	03018E	49.5 128.8	GGGG			194	28
2831-09245	00000/0000	2-20043/1173	05/02/77	80	1583	6930N	02139E	34.9 160.9	FFF			212	11
2831-09251	00000/0000	2-20043/1174	05/02/77	80	1583	6812N	01950E	36.0 158.5	FFFF			212	12
2831-09351	00000/0000	2-20043/1232	05/02/77	10	1583	3438N	00035E	53.3 112.8	FGGG			212	36
2831-09354	00000/0000	2-20043/1233	05/02/77	60	1583	3313N	00008E	53.6 110.7	GGGG			212	37
2831-09360	00000/0000	2-20043/1234	05/02/77	100	1583	3147N	00016W	53.8 108.6	GGGG			212	38
2831-09363	00000/0000	2-20043/1235	05/02/77	100	1583	3020N	00041W	54.0 106.4	GGGG			212	39
2831-09365	00000/0000	2-20043/1236	05/02/77	50	1583	2854N	00106W	54.2 104.2	GGGG			212	40
2831-14405	00000/0000	2-20043/0992	05/02/77	60	1586	4854N	07143W	48.2 132.5	GGG			15	26
2831-14482	00000/0000	2-20043/0993	05/02/77	90	1586	2309N	08004W	54.2 95.6	GGGG			15	44
2831-16234	00000/0000	2-20043/1096	05/02/77	0	1587	5018N	09654W	47.5 134.2	GGGG			33	25
2831-17572	00000/0000	2-20043/1237	05/02/77	10	1588	7935N	07319W	25.5 198.5	GGGG			53	2
2831-17575	00000/0000	2-20043/1238	05/02/77	10	1588	7846N	07944W	26.6 191.8	GGGG			52	3
2831-17581	00000/0000	2-20043/1239	05/02/77	10	15	7749N	08516W	27.7 185.9	GGGG			52	4
2831-17584	00000/0000	2-20043/1240	05/02/77	10		7647N	08959W	28.7 180.9	GGGG			52	5
2832-01011	00000/0000	2-20043/1241	05/03/77	20	1592	4606N	13212E	49.7 128.7	GGGG			123	28
2832-01020	00000/0000	2-20043/1242	05/03/77	60	1592	4315N	13105E	50.9 124.9	GGGG			123	30
2832-01173	00000/0000	2-20043/1243	05/03/77	20	1592	10033	11712E	40.6 59.2	GGGG			123	67
2832-07503	00000/0000	2-20043/1015	05/03/77		1596	5842N	03526E	42.8 144.8	GGGG			195	19
2832-07510	00000/0000	2-20043/1016	05/03/77		1596	5719N	03432E	43.7 143.0	GGGG			195	20
2832-07512	00000/0000	2-20043/1017	05/03/77	20	1596	5555N	03340E	44.6 141.2	GGGG			195	21

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANKS=BAND NOT AVAILABLE, G=GOOD, P=POOR, F=FAIR.
 MSS DATA MODE (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN (BLANK)=LOW GAIN, H=HIGH GAIN

22107 JUN 27, '77

LANDSAT-2
OBSERVATION ID LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0055

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	PRINCIPAL POINT OF IMAGE LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV MSS	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2832-07515	00000/0000	2-20043/1018	05/03/77	10	1596	5431N	03252E	45.4	139.5	GF GG			195	22
2832-07521	00000/0000	2-20043/1019	05/03/77	10	1596	5307N	03208E	46.2	137.7	GG GG			195	23
2832-07524	00000/0000	2-20043/1020	05/03/77	10	1596	5143N	03126E	47.0	135.9	GG GG			195	24
2832-07530	00000/0000	2-20043/1021	05/03/77	30	1596	5018N	03046E	47.7	134.1	GG GG			195	25
2832-07533	00000/0000	2-20043/1022	05/03/77	20	1596	4853N	03007E	48.4	132.3	GG GG			195	26
2832-07535	00000/0000	2-20043/1023	05/03/77	10	1596	4728N	02930E	49.1	130.5	GG GG			195	27
2832-07542	00000/0000	2-20043/1024	05/03/77	10	1596	4603N	02855E	49.8	128.6	GG GG			195	28
2832-09335	00000/0000	2-20043/0499	05/03/77	100	1597	5844N	00936E	42.8	144.8	GG GG			213	19
2832-09341	00000/0000	2-20043/0500	05/03/77	90	1597	5720N	00842E	43.7	143.1	GF GG			213	20
2832-09344	00000/0000	2-20043/0501	05/03/77	90	1597	5557N	00751E	44.6	141.3	GG GG			213	21
2832-09350	00000/0000	2-20043/0502	05/03/77	20	1597	5433N	00704E	45.4	139.5	GF FG			213	22
2832-09353	00000/0000	2-20043/0503	05/03/77	40	1597	5309N	00619E	46.2	137.7	GG GG			213	23
2832-16292	00000/0000	2-20043/0569	05/03/77	20	1601	5018N	09820W	47.8	134.0	GF GG			34	25
2833-01060	00000/0000	2-20043/0504	05/04/77	80	1606	4856N	13158E	48.6	132.2	GG GG			124	26
2833-01063	00000/0000	2-20043/0505	05/04/77	10	1606	4731N	13122E	49.3	130.3	GG GG			124	27
2833-01065	00000/0000	2-20043/0506	05/04/77	10	1606	4606N	13047E	49.9	128.5	GG GG			124	28
2833-01072	00000/0000	2-20043/0507	05/04/77	10	1606	4441N	13013E	50.5	126.5	GG GG			124	29
2833-01074	00000/0000	2-20043/0508	05/04/77	10	1606	4315N	12941E	51.1	124.6	GG GG			124	30
2833-02522	00000/0000	2-20043/0509	05/04/77	0	1607	3857N	10219E	52.6	118.5	GG GG			142	31
2833-02524	00000/0000	2-20043/0510	05/04/77	10	1607	3731N	10151E	53.0	116.4	GG GG			142	32
2833-02531	00000/0000	2-20043/0511	05/04/77	10	1607	3605N	10124E	53.4	114.3	GG GG			142	33
2833-02533	00000/0000	2-20043/0512	05/04/77	10	1607	3440N	10058E	53.7	112.2	GG GG			142	34
2833-02540	00000/0000	2-20043/0513	05/04/77	10	1607	3314N	10033E	53.9	110.1	GG GG			142	35
2833-02563	00000/0000	2-20043/0514	05/04/77	40	1607	2437N	09810E	54.4	97.0	GG GG			142	36
2833-04310	00000/0000	2-20043/1111	05/04/77	30	1608	5432N	08303E	45.6	139.4	GG GG			160	22
2833-04312	00000/0000	2-20043/1112	05/04/77	30	1608	5308N	08219E	46.4	137.6	GG GG			160	23
2833-04315	00000/0000	2-20043/1113	05/04/77	70	1608	5143N	08137E	47.2	135.8	GG GG			160	24
2833-04321	00000/0000	2-20043/1114	05/04/77	20	1608	5019N	08057E	47.9	134.0	GG GG			160	25
2833-04324	00000/0000	2-20043/1115	05/04/77	30	1608	4854N	08018E	48.6	132.1	GG GG			150	26
2833-04330	00000/0000	2-20043/1116	05/04/77	10	1608	4729N	07942E	49.3	130.3	GG GG			160	27
2833-04333	00000/0000	2-20043/1117	05/04/77	10	1608	4603N	07907E	50.0	128.4	GG GG			160	28
2833-04335	00000/0000	2-20043/1118	05/04/77	0	1608	4439N	07833E	50.6	126.5	GG GG			160	29
2833-04342	00000/0000	2-20043/1119	05/04/77	0	1608	4313N	07801E	51.1	124.5	GG GG			160	30
2833-04344	00000/0000	2-20043/1120	05/04/77	10	1608	4148N	07730E	51.7	122.5	GG GG			160	31
2833-04351	00000/0000	2-20043/1121	05/04/77	50	1608	4022N	07700E	52.2	120.5	GG GG			160	32
2833-04353	00000/0000	2-20043/1122	05/04/77	40	1608	3857N	07630E	52.6	118.5	GG GF			160	33

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANKS=BAND NOT AVAILABLE, G=GOOD, P=POOR, F=FAIR.
 MSS DATA MODE (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN (BLANK)=LOW GAIN, H=HIGH GAIN

22107 JUN 27, 77

LANDSAT-2
OBSERVATION ID LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0056

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	LONG	SUN ELEV.	SUN AZIM.	IMAGE=QUAL RBV MSS DATA	MSS MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2833-04360	00000/0000	2-20043/1123	05/04/77	60	1608	3731N	07602E	53.0	116.4	GQGF		160	24
2833-06135	00000/0000	2-20043/1124	05/04/77	90	1609	5555N	05801E	44.8	141.1	GQGG		178	21
2833-06141	00000/0000	2-20043/1125	05/04/77	70	1609	5432N	05714E	45.6	139.4	GQGG		178	22
2833-06144	00000/0000	2-20043/1126	05/04/77	60	1609	5307N	05629E	46.4	137.6	GQGG		178	23
2833-06150	00000/0000	2-20043/1127	05/04/77	50	1609	5143N	05546E	47.2	135.8	GQGG		178	24
2833-06153	00000/0000	2-20043/1128	05/04/77	30	1609	5018N	05506E	47.9	134.0	GQGG		178	25
2833-06155	00000/0000	2-20043/1129	05/04/77	10	1609	4853N	05428E	48.7	132.1	FFFF		178	26
2833-06182	00000/0000	2-20043/1097	05/04/77	0	1609	4021N	05109E	52.2	120.5	GQGF		178	32
2833-06185	00000/0000	2-20043/1098	05/04/77	10	1609	3856N	05040E	52.6	118.4	FFGF		178	33
2833-06200	00000/0000	2-20043/1099	05/04/77	0	1609	3439N	04919E	53.7	112.1	GQGF		178	36
2833-06203	00000/0000	2-20043/1100	05/04/77	0	1609	3313N	04853E	54.0	110.0	GQGG		178	37
2833-06205	00000/0000	2-20043/1101	05/04/77	10	1609	3147N	04827E	54.2	107.8	FGGG		178	38
2833-06212	00000/0000	2-20043/1102	05/04/77	0	1609	3021N	04803E	54.3	105.6	GQGF		178	39
2833-06214	00000/0000	2-20043/1103	05/04/77	10	1609	2855N	04739E	54.4	103.5	GQGF		178	40
2833-07564	00000/0000	2-20043/1130	05/04/77	0	1610	5718N	03304E	44.0	142.9	PPPP		196	20
2833-07570	00000/0000	2-20043/1131	05/04/77	0	1610	5555N	03213E	44.8	141.1	FFFF		196	21
2833-07573	00000/0000	2-20043/1132	05/04/77	0	1610	5431N	03126E	45.7	139.3	FFFF		196	22
2833-07575	00000/0000	2-20043/1133	05/04/77	0	1610	5307N	03041E	46.5	137.5	GQGG		196	23
2833-07582	00000/0000	2-20043/1134	05/04/77	10	1610	5142N	02958E	47.2	135.7	GQGG		196	24
2833-07584	00000/0000	2-20043/1135	05/04/77	20	1610	5017N	02918E	48.0	133.9	GQGG		196	25
2833-07591	00000/0000	2-20043/1136	05/04/77	10	1610	4852N	02840E	48.7	132.1	GQGG		196	26
2833-07593	00000/0000	2-20043/1137	05/04/77	10	1610	4727N	02803E	49.4	130.2	GQGG		196	27
2833-08000	00000/0000	2-20043/1138	05/04/77	10	1610	4602N	02729E	50.0	128.3	FGGG		196	28
2833-08002	00000/0000	2-20043/1139	05/04/77	10	1610	4437N	02655E	50.6	126.4	GQGG		196	29
2833-09395	00000/0000	2-20043/1140	05/04/77	90	1611	5721N	00715E	44.0	142.9	GQGG		214	20
2833-09402	00000/0000	2-20043/1141	05/04/77	80	1611	5557N	00624E	44.8	141.1	GQGG		214	21
2833-09404	00000/0000	2-20043/1142	05/04/77	90	1611	5433N	00537E	45.7	139.4	GQGG		214	22
2833-09411	00000/0000	2-20043/1143	05/04/77	100	1611	5310N	00452E	46.5	137.6	GQGG		214	23
2833-09413	00000/0000	2-20043/1144	05/04/77	100	1611	5145N	00410E	47.2	135.8	GQGG		214	24
2833-13081	00000/0000	2-20043/1224	05/04/77	90	1613	5143N	04730W	47.3	135.7	GQGG		250	24
2833-13083	00000/0000	2-20043/1225	05/04/77	90	1613	5018N	04809W	48.0	133.9	GQGG		250	25
2833-13090	00000/0000	2-20043/1226	05/04/77	80	1613	4854N	04847W	48.7	132.1	GQGG		250	26
2833-13092	00000/0000	2-20043/1227	05/04/77	60	1613	4729N	04924W	49.4	130.2	GQGG		250	27
2833-13095	00000/0000	2-20043/1228	05/04/77	60	1613	4604N	04959W	50.0	128.3	GQGG		250	28
2833-13101	00000/0000	2-20043/1229	05/04/77	40	1613	4438N	05032W	50.7	126.4	GQGG		250	29
2833-13104	00000/0000	2-20043/1230	05/04/77	20	1613	4313N	05104W	51.2	124.4	GQGG		250	30

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
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 MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

22107 JUN 27, 77

LANDSAT-2
OBSERVATION ID LISTING
FOR NNN-US
FROM 05/01/77 TO 05/31/77

PAGE 0057

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV MSS 123 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME RBW NUMBER
2833-13110	00000/0000	2-20043/1231	05/04/77	30	1613	4147N	05135W	51.8	122.4	GGGG		250	31
2833-16273	00000/0000	2-20043/1104	05/04/77	20	1615	7434N	07427W	31.4	172.8	GGGF		36	7
2834-01115	00000/0000	2-20043/1105	05/05/77	100	1620	4855N	13032E	48.8	132.0	GGFG		125	26
2834-01121	00000/0000	2-20043/1106	05/05/77	70	1620	4730N	12955E	49.5	130.1	GGGF		125	27
2834-01124	00000/0000	2-20043/1107	05/05/77	10	1620	4605N	12920E	50.2	128.2	GGGG		125	28
2834-01130	00000/0000	2-20043/1108	05/05/77	30	1620	4440N	12847E	50.8	126.3	GGGG		125	29
2834-01133	00000/0000	2-20043/1109	05/05/77	40	1620	4315N	12814E	51.3	124.3	GGGG		125	30
2834-01135	00000/0000	2-20043/1110	05/05/77	40	1620	4149N	12743E	51.9	122.3	GGGF		125	31
2834-04355	00000/0000	2-20043/0490	05/05/77	90	1622	5720N	08314E	44.2	142.8	GGGG		161	20
2834-04361	00000/0000	2-20043/0491	05/05/77	90	1622	5556N	08223E	45.1	141.0	GGGG		161	21
2834-04364	00000/0000	2-20043/0492	05/05/77	90	1622	5432N	08136E	45.9	139.2	GGGG		161	22
2834-04370	00000/0000	2-20043/0493	05/05/77	70	1622	5308N	08051E	46.7	137.4	GGGG		161	23
2834-04373	00000/0000	2-20043/0494	05/05/77	30	1622	5143N	08009E	47.5	135.6	GGGG		161	24
2834-04375	00000/0000	2-20043/0495	05/05/77	20	1622	5018N	07929E	48.2	133.8	GGGG		161	25
2834-04382	00000/0000	2-20043/0496	05/05/77	30	1622	4854N	07851E	48.9	131.9	GGGG		161	26
2834-04384	00000/0000	2-20043/0497	05/05/77	20	1622	4729N	07814E	49.6	130.0	GGGG		161	27
2834-04391	00000/0000	2-20043/0171	05/05/77	10	1622	4603N	07739E	50.2	128.1	GGG		161	28
2834-04393	00000/0000	2-20043/0172	05/05/77	50	1622	4438N	07706E	50.8	126.2	GGGF		161	29
2834-04400	00000/0000	2-20043/0173	05/05/77	70	1622	4313N	07634E	51.4	124.2	GGGG		161	30
2834-06184	00000/0000	2-20043/1462	05/05/77	60	1623	5842N	05822E	43.4	144.6	GGGG		179	19
2834-06190	00000/0000	2-20043/1472	05/05/77	50	1623	5719N	05728E	44.3	142.8	GFG		179	20
2834-06193	00000/0000	2-20043/1473	05/05/77	20	1623	5556N	05637E	45.1	141.0	GGFG		179	21
2834-06195	00000/0000	2-20043/1474	05/05/77	10	1623	5431N	05549E	45.9	139.2	GGGG		179	22
2834-06202	00000/0000	2-20043/1475	05/05/77	10	1623	5307N	05503E	46.7	137.4	GGGG		179	23
2834-06204	00000/0000	2-20043/1476	05/05/77	10	1623	5143N	05421E	47.5	135.6	GGGG		179	24
2834-06211	00000/0000	2-20043/1477	05/05/77	0	1623	5018N	05341E	48.2	133.8	GGGG		179	25
2834-06213	00000/0000	2-20043/1478	05/05/77	0	1623	4853N	05303E	48.9	131.9	GGGG		179	26
2834-06240	00000/0000	2-20043/1479	05/05/77	10	1623	4021N	04945E	52.4	120.2	GGGG		179	32
2834-06243	00000/0000	2-20043/1480	05/05/77	10	1623	3856N	04915E	52.8	118.1	GGGG		179	33
2834-06245	00000/0000	2-20043/1481	05/05/77	20	1623	3730N	04847E	53.2	116.0	GGGG		179	34
2834-06252	00000/0000	2-20043/1482	05/05/77	30	1623	3605N	04820E	53.6	113.9	GGGG		179	35
2834-06254	00000/0000	2-20043/1483	05/05/77	10	1623	3439N	04753E	53.9	111.7	GGGG		179	36
2834-06261	00000/0000	2-20043/1484	05/05/77	10	1623	3313N	04727E	54.1	109.6	GGGG		179	37
2834-06263	00000/0000	2-20043/1485	05/05/77	10	1623	3147N	04701E	54.3	107.4	GGGG		179	38
2834-06270	00000/0000	2-20043/1486	05/05/77	80	1623	3020N	04637E	54.5	105.2	GGGG		179	39
2834-06272	00000/0000	2-20043/1487	05/05/77	90	1623	2853N	04613E	54.6	103.0	FGGG		179	40

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
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 MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

22107 JUN 27, '77

LANDSAT-2
OBSERVATION ID LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0058

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV	DATE ACQUIRED	CLOUD COVER NUMBER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	SUN ELEV.	SUN AZIM.	IMAGE=QUAL RBV MSS	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2834-13135	00000/0000 2-20043/1148	05/05/77	70	1627	5143N	04853W	47.5	135.3	GGG		251	24
2834-13141	00000/0000 2-20043/1149	05/05/77	30	1627	5018N	04933W	48.3	133.7	FGGG		251	25
2834-13144	00000/0000 2-20043/1150	05/05/77	30	1627	4853N	05012W	49.0	131.8	GGGG		251	26
2834-13180	00000/0000 2-20043/1151	05/05/77	30	1627	4728N	05048W	49.7	130.0	GGGG		251	27
2834-13183	00000/0000 2-20043/1152	05/05/77	70	1627	4604N	05123W	50.3	128.0	FGGG		251	28
2834-13155	00000/0000 2-20043/1153	05/05/77	90	1627	4438N	05156W	50.9	126.1	GGGG		251	29
2834-13162	00000/0000 2-20043/1154	05/05/77	70	1627	4313N	05229W	51.5	124.1	GGGG		251	30
2834-13164	00000/0000 2-20043/1155	05/05/77	80	1627	4147N	05311W	52.0	122.1	GGGG		251	31
2834-16402	00000/0000 2-20043/1145	05/05/77	100	1629	5145N	10021W	47.6	135.6	GGGG		36	24
2834-16404	00000/0000 2-20043/1146	05/05/77	100	1629	5021N	10111W	48.3	133.7	GGGG		36	25
2835-01170	00000/0000 2-20043/1463	05/06/77	100	1634	5019N	12944E	48.4	133.6	GGFF		126	25
2835-01173	00000/0000 2-20043/1464	05/06/77	90	1634	4854N	12905E	49.1	131.8	GGFF		126	26
2835-01175	00000/0000 2-20043/1465	05/06/77	90	1634	4730N	12829E	49.8	129.9	GGFF		126	27
2835-01182	00000/0000 2-20043/1466	05/06/77	90	1634	4605N	12754E	50.4	128.0	GGFF		126	28
2835-01184	00000/0000 2-20043/1467	05/06/77	30	1634	4439N	12720E	51.0	126.0	GGGG		126	29
2835-01191	00000/0000 2-20043/1468	05/06/77	30	1634	4314N	12648E	51.6	124.0	GGGG		126	30
2835-01193	00000/0000 2-20043/1469	05/06/77	30	1634	4149N	12617E	52.1	122.0	GGGG		126	31
2835-01200	00000/0000 2-20043/1470	05/06/77	40	1634	4023N	12547E	52.6	120.0	GGGG		126	32
2835-01202	00000/0000 2-20043/1471	05/06/77	70	1634	3857N	12518E	53.0	117.9	GGGG		126	33
2835-02593	00000/0000 2-20043/0498	05/06/77	40	1635	5309N	10516E	46.9	137.3	GGGF		144	23
2835-04422	00000/0000 2-20043/1156	05/06/77	90	1636	5432N	08013E	46.2	139.1	FGFG		162	22
2835-04424	00000/0000 2-20043/1157	05/06/77	100	1636	5308N	07927E	46.9	137.2	GGGG		162	23
2835-04431	00000/0000 2-20043/1158	05/06/77	100	1636	5143N	07845E	47.7	135.4	GFGG		162	24
2835-04433	00000/0000 2-20043/1159	05/06/77	90	1636	5018N	07804E	48.4	133.6	FFFG		162	25
2835-04440	00000/0000 2-20043/1160	05/06/77	70	1636	4853N	07726E	49.1	131.7	GGFG		162	26
2835-04454	00000/0000 2-20043/1161	05/06/77	90	1636	4313N	07508E	51.6	124.0	GGFG		162	30
2835-06251	00000/0000 2-20043/1162	05/06/77	60	1637	5558N	05511E	45.3	140.9	GGFG		180	21
2835-06253	00000/0000 2-20043/1163	05/06/77	40	1637	5434N	05423E	46.2	139.1	FGGG		180	22
2835-06260	00000/0000 2-20043/1164	05/06/77	40	1637	5310N	05339E	46.9	137.3	GFGG		180	23
2835-06262	00000/0000 2-20043/1165	05/06/77	20	1637	5146N	05256E	47.7	135.5	FGGG		180	24
2835-06265	00000/0000 2-20043/1166	05/06/77	10	1637	5021N	05215E	48.4	133.6	FGGG		180	25
2835-06271	00000/0000 2-20043/1167	05/06/77	0	1637	4856N	05137E	49.1	131.8	GGGG		180	26
2835-06292	00000/0000 2-20043/1168	05/06/77	90	1637	4149N	04849E	52.1	122.0	GFGG		180	31
2835-06294	00000/0000 2-20043/1169	05/06/77	50	1637	4024N	04819E	52.6	119.9	GFGG		180	32
2835-06301	00000/0000 2-20043/1170	05/06/77	50	1637	3858N	04750E	53.0	117.9	GFGG		180	33
2835-06315	00000/0000 2-20043/1171	05/06/77	60	1637	3315N	04602E	54.3	109.3	GGGG		180	37

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANKS=BAND NOT AVAILABLE, G=GOOD, P=POOR, F=FAIR.
 MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

22107 JUN 27, 1977

LANDSAT-2
OBSERVATION ID LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0059

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2835-08082	00000/0000	2-20043/1175	05/06/77	10	1638	5557N	02924E	45.4	140.9	GGGG		198	21
2835-08085	00000/0000	2-20043/1176	05/06/77	10	1638	5433N	02836E	46.2	139.1	GGG		198	22
2835-08091	00000/0000	2-20043/1177	05/06/77	0	1638	5309N	02751E	47.0	137.3	GGG		198	23
2835-08094	00000/0000	2-20043/1178	05/06/77	10	1638	5145N	02708E	47.7	135.4	GGG		198	24
2835-08100	00000/0000	2-20043/1179	05/06/77	10	1638	5020N	02628E	48.5	133.6	GGG		198	25
2835-08103	00000/0000	2-20043/1180	05/06/77	10	1638	4855N	02550E	49.2	131.7	GGF		198	26
2835-09503	00000/0000	2-20043/1181	05/06/77	90	1639	6006N	00616E	42.8	146.3	FGGG		216	18
2835-09505	00000/0000	2-20043/1182	05/06/77	100	1639	5843N	00518E	43.7	144.5	GGGG		216	19
2835-09512	00000/0000	2-20043/1183	05/06/77	100	1639	5720N	00424E	44.5	142.7	GGGG		216	20
2835-09514	00000/0000	2-20043/1184	05/06/77	90	1639	5556N	00333E	45.4	140.9	GGGG		216	21
2835-09521	00000/0000	2-20043/1185	05/06/77	60	1639	5432N	00245E	46.2	139.1	GGGG		216	22
2835-09523	00000/0000	2-20043/1186	05/06/77	20	1639	5308N	00200E	47.0	137.2	GGGG		216	23
2835-13190	00000/0000	2-20043/1187	05/06/77	90	1641	5309N	04938W	47.0	137.2	GGGG		1	23
2835-13193	00000/0000	2-20043/1188	05/06/77	90	1641	5145N	05020W	47.8	135.4	GGGG		1	24
2835-13195	00000/0000	2-20043/1189	05/06/77	90	1641	5021N	05100W	48.5	133.6	GGGG		1	25
2835-13202	00000/0000	2-20043/1190	05/06/77	90	1641	4856N	05138W	49.2	131.7	GGGG		1	26
2835-13204	00000/0000	2-20043/1191	05/06/77	70	1641	4732N	05215W	49.9	129.8	GGGG		1	27
2835-13211	00000/0000	2-20043/1192	05/06/77	30	1641	4606N	05250W	50.5	127.9	GGGG		1	28
2835-13213	00000/0000	2-20043/1193	05/06/77	50	1641	4440N	05323W	51.1	125.9	GGGG		1	29
2835-13220	00000/0000	2-20043/1194	05/06/77	20	1641	4315N	05354W	51.7	123.9	GGGG		1	30
2835-13222	00000/0000	2-20043/1195	05/06/77	10	1641	4150N	05425W	52.2	121.9	GGGG		1	31
2835-13293	00000/0000	2-20043/1446	05/06/77	10	1641	1725N	06126W	53.6	85.5	GGGG		1	48
2835-16453	00000/0000	2-20043/1199	05/06/77	10	1643	5309N	10115W	47.1	137.2	GGGG		37	23
2835-16460	00000/0000	2-20043/1200	05/06/77	10	1643	5145N	10157W	47.8	135.4	GGGG		37	24
2835-16462	00000/0000	2-20043/1201	05/06/77	70	1643	5020N	10238W	48.6	133.5	GGGG		37	25
2836-01222	00000/0000	2-20043/1447	05/07/77	10	1648	5143N	12857E	47.9	135.3	GGGG		127	24
2836-01224	00000/0000	2-20043/1448	05/07/77	20	1648	5019N	12817E	48.6	133.4	GGGG		127	25
2836-01231	00000/0000	2-20043/1449	05/07/77	60	1648	4854N	12738E	49.3	131.5	GGGG		127	26
2836-01233	00000/0000	2-20043/1450	05/07/77	60	1648	4729N	12701E	50.0	129.6	GGGG		127	27
2836-01240	00000/0000	2-20043/1451	05/07/77	30	1648	4605N	12626E	50.6	127.7	GGGG		127	28
2836-01242	00000/0000	2-20043/1452	05/07/77	20	1648	4439N	12553E	51.2	125.7	GGGG		127	29
2836-01245	00000/0000	2-20043/1453	05/07/77	10	1648	4313N	12521E	51.8	123.7	GGGG		127	30
2836-01251	00000/0000	2-20043/1454	05/07/77	10	1648	4148N	12450E	52.3	121.7	GGGG		127	31
2836-01254	00000/0000	2-20043/1455	05/07/77	10	1648	4022N	12420E	52.8	119.6	GGGG		127	32
2836-01260	00000/0000	2-20043/1456	05/07/77	0	1648	3856N	12351E	53.2	117.5	GGFG		127	33
2836-01263	00000/0000	2-20043/1457	05/07/77	0	1648	3730N	12323E	53.6	115.4	GGFG		127	34

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANKS=BAD; NOT AVAILABLE. G=GOOD; P=POOR; F=FAIR.
 MSS DATA MODE (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN (BLANK)=LOW GAIN, H=HIGH GAIN

22:07 JUN 27, 1977

LANDSAT-2
OBSERVATION ID LISTING
FOR NNN-US
FROM 05/01/77 TO 05/31/77

PAGE 0060

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT LONG	SUN ELEV.	SUN AZIM.	IMAGE=QUAL RBV MSS 123 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2836-01281	00000/0000	2-20043/1458	05/07/77	90	1648	3147N 12137E	54.6	106.7	GGGG			127	38
2836-01283	00000/0000	2-20043/1459	05/07/77	90	1648	3020N 12113E	54.7	104.5	FGFG			127	39
2836-01290	00000/0000	2-20043/1460	05/07/77	100	1648	2853N 12049E	54.8	102.3	GGGG			127	40
2836-01292	00000/0000	2-20043/1461	05/07/77	100	1648	2728N 12026E	54.8	100.1	GGGG			127	41
2836-03051	00000/0000	2-20043/1172	05/07/77	60	1649	5308N 10350E	47.2	137.1	FFFF			145	23
2836-04471	00000/0000	2-20043/1350	05/07/77	80	1650	5722N 08025E	44.7	142.6	GGGG			163	20
2836-04473	00000/0000	2-20043/1351	05/07/77	90	1650	5559N 07935E	45.6	140.8	GGGG			163	21
2836-04480	00000/0000	2-20043/1352	05/07/77	80	1650	5435N 07847E	46.4	139.0	GGGG			163	22
2836-04482	00000/0000	2-20043/1353	05/07/77	70	1650	5310N 07801E	47.2	137.1	GGGG			163	23
2836-04485	00000/0000	2-20043/1354	05/07/77	70	1650	5146N 07718E	47.9	135.3	GGGG			163	24
2836-04491	00000/0000	2-20043/1355	05/07/77	60	1650	5021N 07638E	48.7	133.4	GGGG			163	25
2836-04494	00000/0000	2-20043/1356	05/07/77	50	1650	4856N 07600E	49.4	131.6	GGGG			163	26
2836-04500	00000/0000	2-20043/1357	05/07/77	10	1650	4731N 07524E	50.0	129.7	GGGG			163	27
2836-04503	00000/0000	2-20043/1358	05/07/77	0	1650	4606N 07449E	50.7	127.7	GGGG			163	28
2836-04505	00000/0000	2-20043/1359	05/07/77	10	1650	4441N 07415E	51.2	125.7	GGGG			163	29
2836-04512	00000/0000	2-20043/1360	05/07/77	20	1650	4315N 07343E	51.8	123.7	GGGG			163	30
2836-06305	00000/0000	2-20043/1202	05/07/77	60	1651	5557N 05346E	45.6	140.8	GGGG			181	21
2836-06311	00000/0000	2-20043/1203	05/07/77	30	1651	5434N 05258E	46.4	138.9	GGGG			181	22
2836-06314	00000/0000	2-20043/1204	05/07/77	10	1651	5309N 05214E	47.2	137.1	GGGG			181	23
2836-06320	00000/0000	2-20043/1205	05/07/77	0	1651	5145N 05131E	48.0	135.3	GGGG			181	24
2836-06323	00000/0000	2-20043/1206	05/07/77	0	1651	5021N 05051E	48.7	133.4	GGGG			181	25
2836-06325	00000/0000	2-20043/1207	05/07/77	0	1651	4856N 05013E	49.4	131.5	GGGG			181	26
2836-06332	00000/0000	2-20043/1208	05/07/77	0	1651	4731N 04936E	50.1	129.6	GGGG			181	27
2836-06334	00000/0000	2-20043/1209	05/07/77	10	1651	4606N 04901E	50.7	127.7	GGGG			181	28
2836-06341	00000/0000	2-20043/1210	05/07/77	70	1651	4441N 04828E	51.3	125.7	GGGG			181	29
2836-06343	00000/0000	2-20043/1211	05/07/77	100	1651	4315N 04756E	51.8	123.7	GGGG			181	30
2836-06350	00000/0000	2-20043/1212	05/07/77	90	1651	4149N 04725E	52.3	121.7	GGGG			181	31
2836-06352	00000/0000	2-20043/1213	05/07/77	90	1651	4024N 04654E	52.8	119.6	GGGG			181	32
2836-06355	00000/0000	2-20043/1214	05/07/77	60	1651	3858N 04625E	53.2	117.5	GGGG			181	33
2836-08123	00000/0000	2-20043/1244	05/07/77	90	1652	6130N 03142E	42.1	148.1	GGGG			199	17
2836-08125	00000/0000	2-20043/1245	05/07/77	90	1652	6007N 03039E	43.0	146.2	GGGG			199	18
2836-08132	00000/0000	2-20043/1246	05/07/77	30	1652	5844N 02941E	43.9	144.4	GGGG			199	19
2836-08134	00000/0000	2-20043/1247	05/07/77	30	1652	5721N 02846E	44.8	142.6	GGGG			199	20
2836-08141	00000/0000	2-20043/1248	05/07/77	30	1652	5556N 02756E	45.6	140.7	GGGG			199	21
2836-08150	00000/0000	2-20043/1249	05/07/77	20	1652	5309N 02623E	47.2	137.1	GGGG			199	22
2836-08152	00000/0000	2-20043/1250	05/07/77	10	1652	5144N 02541E	48.0	135.2	GGGG			199	24

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
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 MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

22:07 JUN 27, 77

LANDSAT-2
OBSERVATION ID LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0061

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV MSS 123 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2836-08155	00000/0000	2-20043/1251	05/07/77	10	1652	5020N	02500E	48.7	133.4	FGGG		199	25
2836-08161	00000/0000	2-20043/1252	05/07/77	30	1652	4855N	02422E	49.4	131.5	PPPP		199	26
2836-08164	00000/0000	2-20043/1253	05/07/77	50	1652	4730N	02346E	50.1	129.6	PPP		199	27
2836-09563	00000/0000	2-20043/1254	05/07/77	70	1653	5843N	00355E	44.0	144.4	GGG		217	19
2836-09570	00000/0000	2-20043/1255	05/07/77	70	1653	5720N	00300E	44.8	142.5	GGF		217	20
2836-09572	00000/0000	2-20043/1256	05/07/77	80	1653	5556N	00209E	45.7	140.7	GGG		217	21
2836-09575	00000/0000	2-20043/1257	05/07/77	90	1653	5432N	00121E	46.5	138.9	GGG		217	22
2836-09581	00000/0000	2-20043/1258	05/07/77	70	1653	5308N	00035E	47.3	137.1	GGG		217	23
2836-13160	00000/0000	2-20043/1215	05/07/77	0	1655	7936N	00233W	26.8	198.9	GGGG		3	2
2836-13244	00000/0000	2-20043/1310	05/07/77	70	1655	5309N	05101W	47.3	137.1	GGGG		2	23
2836-13251	00000/0000	2-20043/1311	05/07/77	90	1655	5145N	05144W	48.0	135.2	GGGG		2	24
2836-13253	00000/0000	2-20043/1312	05/07/77	90	1655	5020N	05224W	48.8	133.4	GGGG		2	25
2836-13260	00000/0000	2-20043/1313	05/07/77	90	1655	4855N	05302W	49.5	131.5	GGGG		2	26
2836-13262	00000/0000	2-20043/1314	05/07/77	90	1655	4731N	05339W	50.1	129.6	GGGG		2	27
2836-13265	00000/0000	2-20043/1315	05/07/77	60	1655	4606N	05414W	50.7	127.6	GGGG		2	28
2836-13271	00000/0000	2-20043/1316	05/07/77	20	1655	4441N	05447W	51.3	125.6	FGGG		2	29
2836-13274	00000/0000	2-20043/1317	05/07/77	10	1655	4215N	05519W	51.9	123.6	GGGG		2	30
2836-13280	00000/0000	2-20043/1318	05/07/77	10	1655	4150N	05551W	52.4	121.6	GGGG		2	31
2836-16514	00000/0000	2-20043/1369	05/07/77	10	1657	5146N	10322W	48.1	135.2	GGGG		38	24
2836-16520	00000/0000	2-20043/1370	05/07/77	10	1657	5021N	10402W	48.8	133.3	GGGG		38	25
2836-21551	00000/0000	2-20043/1319	05/07/77	80	1660	7208N	16147W	34.4	166.2	GGGG		93	9
2837-01280	00000/0000	2-20043/1216	05/08/77	10	1662	5144N	12731E	48.2	135.1	GGGG		128	24
2837-01282	00000/0000	2-20043/1217	05/08/77	10	1662	5020N	12651E	48.9	133.2	GGGG		128	25
2837-01285	00000/0000	2-20043/1218	05/08/77	10	1662	4855N	12613E	49.6	131.3	GGGG		128	26
2837-01291	00000/0000	2-20043/1219	05/08/77	10	1662	4729N	12536E	50.2	129.4	GGGG		128	27
2837-01294	00000/0000	2-20043/1220	05/08/77	0	1662	4604N	12501E	50.9	127.5	GGGG		128	28
2837-01300	00000/0000	2-20043/1221	05/08/77	0	1662	4439N	12427E	51.5	125.5	GGGG		128	29
2837-01303	00000/0000	2-20043/1222	05/08/77	0	1662	4314N	12355E	52.0	123.5	GGGG		128	30
2837-01305	00000/0000	2-20043/1223	05/08/77	0	1662	4147N	12323E	52.5	121.4	GGGG		128	31
2837-01312	00000/0000	2-20043/1333	05/08/77	0	1662	4022N	12254E	53.0	119.3	GGFG		128	32
2837-01314	00000/0000	2-20043/1334	05/08/77	10	1662	3856N	12225E	53.4	117.2	FFFG		128	33
2837-01321	00000/0000	2-20043/1335	05/08/77	20	1662	3731N	12157E	53.8	115.1	GGGG		128	34
2837-01323	00000/0000	2-20043/1336	05/08/77	30	1662	3405N	12130E	54.1	112.9	GGFG		128	35
2837-01330	00000/0000	2-20043/1337	05/08/77	70	1662	3439N	12104E	54.4	110.7	FFFF		128	36
2837-01332	00000/0000	2-20043/1338	05/08/77	100	1662	3312N	12038E	54.6	108.5	GGGG		128	37
2837-01335	00000/0000	2-20043/1339	05/08/77	100	1662	3146N	12012E	54.8	106.3	GGGG		128	38

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANKS=BAND NOT AVAILABLE. G=GOOD. P=POOR. F=FAIR.
 MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

22:07 JUN 27, '77

LANDSAT-2
OBSERVATION ID LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0062

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	PRINCIPAL POINT OF IMAGE LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV MSS 123 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2837-01341	00000/0000	2-20043/1340	05/08/77	100	1662	3020N	11948E	54.9	104.1	GGFG			128	39
2837-01344	00000/0000	2-20043/1341	05/08/77	70	1662	2854N	11923E	54.9	101.8	GGGG			128	40
2837-01350	00000/0000	2-20043/1342	05/08/77	80	1662	2727N	11900E	55.0	99.6	FGGG			128	41
2837-01353	00000/0000	2-20043/1343	05/08/77	80	1662	2601N	11837E	54.9	97.4	GGGG			128	42
2837-01355	00000/0000	2-20043/1344	05/08/77	70	1662	2435N	11814E	54.8	95.2	GGGG			128	43
2837-01394	00000/0000	2-20043/1345	05/08/77	50	1662	1135N	11503E	51.8	77.2	GGGG		H	128	52
2837-01400	00000/0000	2-20043/1346	05/08/77	40	1662	1009N	11442E	51.2	75.4	GGGG		H	128	53
2837-01403	00000/0000	2-20043/1347	05/08/77	40	1662	0843N	11422E	50.6	73.7	GGGG		H	128	54
2837-01405	00000/0000	2-20043/1348	05/08/77	30	1662	0716N	11402E	49.9	72.1	GGGG		H	128	55
2837-01412	00000/0000	2-20043/1349	05/08/77	30	1662	0549N	11342E	49.3	70.6	GGGG		H	128	56
2837-03100	00000/0000	2-20043/1361	05/08/77	10	1663	5600N	10357E	45.8	140.7	GGGG			146	21
2837-03102	00000/0000	2-20043/1362	05/08/77	10	1663	5435N	10309E	46.6	138.8	GGGG			146	22
2837-03105	00000/0000	2-20043/1363	05/08/77	10	1663	5311N	10224E	47.4	137.0	FGGG			146	23
2837-03200	00000/0000	2-20043/1364	05/08/77	70	1663	2146N	09141E	54.5	90.9	GGGG			146	45
2837-04534	00000/0000	2-20043/1393	05/08/77	90	1664	5434N	07721E	46.6	138.8	GGGG			164	22
2837-04540	00000/0000	2-20043/1394	05/08/77	60	1664	5310N	07637E	47.4	137.0	GGGG			164	23
2837-04543	00000/0000	2-20043/1395	05/08/77	60	1664	5146N	07554E	48.2	135.1	GGGG			164	24
2837-04545	00000/0000	2-20043/1396	05/08/77	20	1664	5021N	07514E	48.9	133.2	GGGG			164	25
2837-04552	00000/0000	2-20043/1397	05/08/77	10	1664	4856N	07436E	49.6	131.3	GGGG			164	26
2837-04554	00000/0000	2-20043/1398	05/08/77	0	1664	4731N	07359E	50.3	129.4	GGGG			164	27
2837-04561	00000/0000	2-20043/1399	05/08/77	0	1664	4606N	07324E	50.9	127.5	GGGG			164	28
2837-04563	00000/0000	2-20043/1400	05/08/77	0	1664	4441N	07250E	51.5	125.5	GGGG			164	29
2837-04570	00000/0000	2-20043/1419	05/08/77	10	1664	4316N	07218E	52.0	123.5	G			164	30
2837-04572	00000/0000	2-20043/1420	05/08/77	20	1664	4150N	07147E	52.5	121.4	FGGG			164	31
2837-04575	00000/0000	2-20043/1421	05/08/77	30	1664	4025N	07117E	53.0	119.3	GGGG			164	32
2837-06361	00000/0000	2-20043/1422	05/08/77	10	1665	5721N	05310E	45.0	142.5	FGGG			182	20
2837-06363	00000/0000	2-20043/1423	05/08/77	90	1665	5558N	05219E	45.9	140.6	GGGG			182	21
2837-06370	00000/0000	2-20043/1424	05/08/77	50	1665	5434N	05131E	46.7	138.8	GGGG			182	22
2837-06381	00000/0000	2-20043/1425	05/08/77	10	1665	5020N	04923E	48.9	133.2	GGGG			182	25
2837-06384	00000/0000	2-20043/1426	05/08/77	10	1665	4855N	04845E	49.6	131.3	GGGG			182	26
2837-06390	00000/0000	2-20043/1427	05/08/77	80	1665	4730N	04809E	50.3	129.4	FGGG			182	27
2837-06393	00000/0000	2-20043/1428	05/08/77	70	1665	4605N	04734E	50.9	127.4	GGGG			182	28
2837-06395	00000/0000	2-20043/1429	05/08/77	20	1665	4440N	04701E	51.5	125.4	GGGG			182	29
2837-06402	00000/0000	2-20043/1430	05/08/77	40	1665	4314N	04629E	52.0	123.4	GGGG			182	30
2837-06404	00000/0000	2-20043/1431	05/08/77	30	1665	4149N	04558E	52.5	121.4	GGGG			182	31
2837-06411	00000/0000	2-20043/1432	05/08/77	40	1665	4023N	04527E	53.0	119.3	FFFF			182	32

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANKS-BAND NOT AVAILABLE, G=GOOD, P=POOR, F=FAIR.
 MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

22107 JUN 27, 177

LANDSAT-2
OBSERVATION ID LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0063

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV MSS 123 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2837-06413	00000/0000	2-20043/1371	05/08/77	40	1665	3858N 04458E	53.4	117.2	G			182	33
2837-13300	00000/0000	2-20043/1675	05/08/77	80	1669	5434N 05142W	46.7	138.7	GGGG			3	22
2837-13302	00000/0000	2-20043/1676	05/08/77	80	1669	5309N 05227W	47.5	136.9	GFFG			3	23
2837-13305	00000/0000	2-20043/1677	05/08/77	80	1669	5145N 05309W	48.3	135.0	GFFG			3	24
2837-13311	00000/0000	2-20043/1678	05/08/77	70	1669	5021N 05349W	49.0	133.2	GGGG			3	25
2837-13314	00000/0000	2-20043/1679	05/08/77	70	1669	4856N 05428W	49.7	131.3	GFFG			3	26
2837-13320	00000/0000	2-20043/1680	05/08/77	80	1669	4731N 05505W	50.3	129.3	FFFG			3	27
2837-13323	00000/0000	2-20043/1681	05/08/77	80	1669	4606N 05540W	51.0	127.4	GFFG			3	28
2837-13325	00000/0000	2-20043/1682	05/08/77	80	1669	4440N 05614W	51.6	125.4	FFFG			3	29
2837-13332	00000/0000	2-20043/1683	05/08/77	80	1669	4315N 05646W	52.1	123.3	GFFG			3	30
2837-13334	00000/0000	2-20043/1684	05/08/77	70	1669	4150N 05716W	52.6	121.3	FFFG			3	31
2837-16563	00000/0000	2-20043/1365	05/08/77	10	1671	5434N 10323W	46.8	138.7	GGGG			39	22
2837-16570	00000/0000	2-20043/1366	05/08/77	20	1671	5309N 10407W	47.6	136.9	GGGG			39	23
2837-16572	00000/0000	2-20043/1367	05/08/77	20	1671	5144N 10450W	48.3	135.0	GGGG			39	24
2837-16575	00000/0000	2-20043/1368	05/08/77	10	1671	5020N 10530W	49.0	133.1	GGGG			39	25
2837-20174	00000/0000	2-20043/1196	05/08/77	100	1673	7209N 13717W	34.7	166.2	GGGG			75	9
2837-20180	00000/0000	2-20043/1197	05/08/77	100	1673	7053N 13936W	35.7	163.4	GGGG			75	10
2837-22012	00000/0000	2-20043/1198	05/08/77	50	1674	7052N 16530W	35.7	163.4	GGGG			93	10
2838-01340	00000/0000	2-20043/1372	05/09/77	60	1676	5018N 12524E	49.1	133.0	GGGG			129	25
2838-01343	00000/0000	2-20043/1373	05/09/77	40	1676	4853N 12447E	49.8	131.1	GGGG			129	26
2838-01345	00000/0000	2-20043/1374	05/09/77	50	1676	4728N 12410E	50.5	129.2	GGGG			129	27
2838-01352	00000/0000	2-20043/1375	05/09/77	40	1676	4603N 12335E	51.1	127.2	GGGG			129	28
2838-01354	00000/0000	2-20043/1376	05/09/77	10	1676	4438N 12302E	51.7	125.2	GGGG			129	29
2838-01361	00000/0000	2-20043/1377	05/09/77	0	1676	4313N 12230E	52.2	123.2	GGGG			129	30
2838-01363	00000/0000	2-20043/1378	05/09/77	0	1676	4147N 12159E	52.7	121.1	GGGG			129	31
2838-01370	00000/0000	2-20043/1379	05/09/77	0	1676	4022N 12128E	53.2	119.0	GGGG			129	32
2838-01372	00000/0000	2-20043/1380	05/09/77	0	1676	3856N 12059E	53.6	116.9	GFFG			129	33
2838-01375	00000/0000	2-20043/1381	05/09/77	0	1676	3731N 12031E	53.9	114.7	GGGG			129	34
2838-01381	00000/0000	2-20043/1436	05/09/77	10	1676	3605N 12004E	54.3	112.5	GGGF			129	35
2838-01384	00000/0000	2-20043/1437	05/09/77	70	1676	3438N 11938E	54.5	110.3	GGGG			129	36
2838-01390	00000/0000	2-20043/1438	05/09/77	100	1676	3312N 11912E	54.7	108.1	GGGG			129	37
2838-01393	00000/0000	2-20043/1439	05/09/77	100	1676	3146N 11846E	54.9	105.9	GGGG			129	38
2838-01395	00000/0000	2-20043/1440	05/09/77	90	1676	3020N 11822E	55.0	103.6	GGGG			129	39
2838-01402	00000/0000	2-20043/1441	05/09/77	100	1676	2855N 11757E	55.1	101.4	GGGG			129	40
2838-01404	00000/0000	2-20043/1442	05/09/77	90	1676	2723N 11734E	55.1	99.2	GGGG			129	41
2838-01411	00000/0000	2-20043/1443	05/09/77	70	1676	2602N 11711E	55.0	97.0	GFFG			129	42

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANKS=BAND NOT AVAILABLE, G=GOOD, P=POOR, F=FAIR.
 MSS DATA MODE (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN (BLANK)=LOW GAIN, H=HIGH GAIN

22:07 JUN 27, 1977

LANDSAT-2
OBSERVATION ID LISTING
FOR NNN-US
FROM 05/01/77 TO 05/31/77

PAGE 0064

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL R3V	MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	SUN ELEV.	SUN AZIM.	IMAGE-QUAL R3V MSS 123 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2838-01413	00000/0000	2-20043/1444	05/09/77	70	1676	2435N	11648E	54.9	94.8	GGGG		129	43
2838-01420	00000/0000	2-20043/1445	05/09/77	50	1676	2309N	11626E	54.8	92.6	GGGG		129	44
2838-03154	00000/0000	2-20043/1433	05/09/77	10	1677	5559N	10231E	46.1	140.5	GGGG		147	21
2838-03160	00000/0000	2-20043/1434	05/09/77	60	1677	5435N	10144E	46.9	138.7	GGGG		147	22
2838-03163	00000/0000	2-20043/1435	05/09/77	70	1677	5311N	10059E	47.7	136.8	GGGG		147	23
2838-04583	00000/0000	2-20043/1401	05/09/77	10	1678	5722N	07734E	45.3	142.3	GGGG		165	20
2838-04590	00000/0000	2-20043/1402	05/09/77	10	1678	5558N	07643E	46.1	140.5	GGGG		165	21
2838-04592	00000/0000	2-20043/1403	05/09/77	10	1678	5434N	07556E	46.9	138.6	GGGG		165	22
2838-04595	00000/0000	2-20043/1404	05/09/77	50	1678	5310N	07510E	47.7	136.8	GGGG		165	23
2838-05001	00000/0000	2-20043/1405	05/09/77	70	1678	5145N	07428E	48.4	134.9	GGGG		165	24
2838-05004	00000/0000	2-20043/1406	05/09/77	20	1678	5020N	07348E	49.2	133.0	FGGG		165	25
2838-05010	00000/0000	2-20043/1407	05/09/77	10	1678	4856N	07309E	49.8	131.1	GGGG		165	26
2838-05013	00000/0000	2-20043/1408	05/09/77	0	1678	4730N	07233E	50.5	129.2	GGGG		165	27
2838-05015	00000/0000	2-20043/1409	05/09/77	0	1678	4605N	07158E	51.1	127.2	GGGG		165	28
2838-05022	00000/0000	2-20043/1410	05/09/77	10	1678	4440N	07125E	51.7	125.2	GGGG		165	29
2838-05024	00000/0000	2-20043/1411	05/09/77	20	1678	4315N	07052E	52.2	123.2	GGGG		165	30
2838-05031	00000/0000	2-20043/1412	05/09/77	30	1678	4149N	07021E	52.7	121.1	GGGG		165	31
2838-05033	00000/0000	2-20043/1413	05/09/77	10	1678	4023N	06951E	53.2	119.0	GGGG		165	32
2838-05040	00000/0000	2-20043/1414	05/09/77	20	1678	3858N	06922E	53.6	116.9	FGGG		165	33
2838-05042	00000/0000	2-20043/1415	05/09/77	10	1678	3733N	06853E	54.0	114.7	FGGG		165	34
2838-05163	00000/0000	2-20043/1416	05/09/77	10	1678	0418S	05816E	43.5	61.1	GGGG	H	165	69
2838-05165	00000/0000	2-20043/1417	05/09/77	20	1678	0545S	05756E	42.6	60.0	FFGF	H	165	64
2838-05172	00000/0000	2-20043/1418	05/09/77	20	1678	0711S	05736E	41.7	59.0	GGGG	H	165	65
2838-06442	00000/0000	2-20043/1878	05/09/77	20	1679	4855N	04719E	49.9	131.1	GGGG		183	26
2838-06444	00000/0000	2-20043/1879	05/09/77	80	1679	4730N	04643E	50.5	129.2	GGGG		183	27
2838-06451	00000/0000	2-20043/1880	05/09/77	70	1679	4605N	04608E	51.1	127.2	GGGG		183	28
2838-06453	00000/0000	2-20043/1881	05/09/77	10	1679	4440N	04535E	51.7	125.2	GGGG		183	29
2838-06460	00000/0000	2-20043/1882	05/09/77	10	1679	4314N	04502E	52.3	123.1	GGGG		183	30
2838-06462	00000/0000	2-20043/1883	05/09/77	10	1679	4149N	04431E	52.7	121.1	GGGG		183	31
2838-06465	00000/0000	2-20043/1884	05/09/77	10	1679	4023N	04401E	53.2	119.0	GGGG		183	32
2838-06471	00000/0000	2-20043/1885	05/09/77	20	1679	3858N	04332E	53.6	116.8	GGGG		183	33
2838-06474	00000/0000	2-20043/1886	05/09/77	10	1679	3732N	04304E	54.0	114.7	GGGG		183	34
2838-06480	00000/0000	2-20043/1887	05/09/77	0	1679	3606N	04237E	54.3	112.5	FGGG		183	35
2838-06483	00000/0000	2-20043/1888	05/09/77	0	1679	3440N	04210E	54.6	110.3	GGGG		183	36
2838-08235	00000/0000	2-20043/1889	05/09/77	90	1680	6129N	02851E	42.7	147.9	GGGG		201	17
2838-08241	00000/0000	2-20043/1890	05/09/77	90	1680	6006N	02748E	43.6	146.0	GGGG		201	18

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
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 MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

22:07 JUN 27, 1977

LANDSAT-2
OBSERVATION ID LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0065

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV MSS 123 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2838-08244	00000/0000	2-20043/1891	05/09/77	90	1680	5843N 02650E	44.4	144.1	GGGG			201	19
2838-08250	00000/0000	2-20043/1892	05/09/77	90	1680	5720N 02556E	45.3	142.3	GGGG			201	20
2838-08253	00000/0000	2-20043/1893	05/09/77	90	1680	5556N 02505E	46.1	140.4	PPPP			201	21
2838-08255	00000/0000	2-20043/1894	05/09/77	90	1680	5433N 02418E	46.9	138.6	PPFF			201	22
2838-08262	00000/0000	2-20043/1895	05/09/77	90	1680	5308N 02333E	47.7	136.7	GGGG			201	23
2838-08264	00000/0000	2-20043/1896	05/09/77	90	1680	5144N 02250E	48.5	134.9	GGGG			201	24
2838-08271	00000/0000	2-20043/1897	05/09/77	90	1680	5019N 02210E	49.2	133.0	FFFF			201	25
2838-08273	00000/0000	2-20043/1898	05/09/77	80	1680	4854N 02132E	49.9	131.1	PPPP			201	26
2838-08280	00000/0000	2-20043/1899	05/09/77	90	1680	4729N 02055E	50.5	129.1	GGGG			201	27
2838-10075	00000/0000	2-20043/1900	05/09/77	90	1681	5846N 00101E	44.4	144.2	GGGG			219	19
2838-10082	00000/0000	2-20043/1901	05/09/77	90	1681	5723N 00007E	45.3	142.3	GGGG			219	20
2838-10084	00000/0000	2-20043/1902	05/09/77	80	1681	5559N 00043W	46.1	140.5	GGGG			219	21
2838-10091	00000/0000	2-20043/1903	05/09/77	90	1681	5435N 00131W	46.9	138.6	GGGG			219	22
2838-10093	00000/0000	2-20043/1904	05/09/77	90	1681	5310N 00216W	47.7	136.8	GGGG			219	23
2838-10100	00000/0000	2-20043/1905	05/09/77	100	1681	5146N 00258W	48.5	134.9	GGGG			219	24
2838-10102	00000/0000	2-20043/1906	05/09/77	90	1681	5021N 00338W	49.2	133.0	GGGG			219	25
2838-13354	00000/0000	2-20043/1685	05/09/77	60	1683	5433N 05308W	47.0	138.6	GGGF			4	22
2838-13360	00000/0000	2-20043/1686	05/09/77	80	1683	5309N 05353W	47.8	136.7	FFGG			4	23
2838-13363	00000/0000	2-20043/1687	05/09/77	80	1683	5145N 05436W	48.5	134.8	FGFF			4	24
2838-13365	00000/0000	2-20043/1688	05/09/77	80	1683	5020N 05516W	49.2	133.0	GGFG			4	25
2838-13372	00000/0000	2-20043/1689	05/09/77	70	1683	4856N 05554W	49.9	131.0	FGFF			4	26
2838-13374	00000/0000	2-20043/1690	05/09/77	70	1683	4731N 05630W	50.6	129.1	FGFF			4	27
2838-13381	00000/0000	2-20043/1691	05/09/77	40	1683	4605N 05706W	51.2	127.1	GGGG			4	28
2838-13383	00000/0000	2-20043/1692	05/09/77	10	1683	4442N 05740W	51.8	125.1	FFFF			4	29
2838-13390	00000/0000	2-20043/1693	05/09/77	40	1683	4315N 05812W	52.3	123.1	FGFG			4	30
2838-13392	00000/0000	2-20043/1694	05/09/77	80	1683	4149N 05843W	52.8	121.0	FGFG			4	31
2838-17012	00000/0000	2-20043/1555	05/09/77	0	1685	5721N 10310W	45.4	142.2	FFFF			40	20
2838-17015	00000/0000	2-20043/1556	05/09/77	10	1685	5557N 10401W	46.2	140.4	FFFF			40	21
2838-17021	00000/0000	2-20043/1557	05/09/77	10	1685	5433N 10449W	47.0	138.5	FFFF			40	22
2838-17024	00000/0000	2-20043/1558	05/09/77	30	1685	5309N 10533W	47.8	136.7	GGFG			40	23
2838-17030	00000/0000	2-20043/1559	05/09/77	10	1685	5145N 10616W	48.6	134.8	GGFG			40	24
2838-17033	00000/0000	2-20043/1560	05/09/77	10	1685	5020N 10656W	49.3	132.9	GGFF			40	25
2838-18455	00000/0000	2-20043/1320	05/09/77	30	1686	5311N 13118W	47.8	136.7	GGGG			58	23
2838-18462	00000/0000	2-20043/1321	05/09/77	40	1686	5147N 13201W	48.6	134.8	GGGG			58	24
2838-20232	00000/0000	2-20043/1488	05/09/77	100	1687	7209N 13845W	34.9	166.2	G GG			76	9
2838-22070	00000/0000	2-20043/1489	05/09/77	80	1688	7053N 16656W	36.0	163.3	GGGG			94	10

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANKS=BAD NOT AVAILABLE, G=GOOD, P=POOR, F=FAIR.
 MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

22107 JUN 27, 1977

LANDSAT-2
OBSERVATION ID LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0066

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	PRINCIPAL POINT OF IMAGE LONG	SUN ELEV.	SUN AZIM.	IMAGE QUAL RBV MSS	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2838-22072	00000/0000	2-20043/1490	05/09/77	80	1688	6935N	16900W	37.0	160.7	GGGG			94	11
2838-22075	00000/0000	2-20043/1491	05/09/77	90	1688	6816N	17050W	38.0	158.3	GGGG			94	12
2839-01401	00000/0000	2-20043/1725	05/10/77	0	1690	4858N	12320E	50.0	131.0	GGGG			130	26
2839-01403	00000/0000	2-20043/1726	05/10/77	10	1690	4733N	12244E	50.7	129.0	GFGG			130	27
2839-01410	00000/0000	2-20043/1727	05/10/77	10	1690	4607N	12209E	51.3	127.0	FGGG			130	28
2839-01412	00000/0000	2-20043/1728	05/10/77	0	1690	4441N	12135E	51.9	125.0	GGGG			130	29
2839-01415	00000/0000	2-20043/1729	05/10/77	0	1690	4316N	12103E	52.4	123.0	GGGG			130	30
2839-01421	00000/0000	2-20043/1730	05/10/77	0	1690	4151N	12032E	52.9	120.9	GGGG			130	31
2839-01424	00000/0000	2-20043/1731	05/10/77	10	1690	4025N	12002E	53.3	118.8	GGGG			130	32
2839-01430	00000/0000	2-20043/1732	05/10/77	10	1690	3859N	11933E	53.7	116.6	GGGG			130	33
2839-01433	00000/0000	2-20043/1733	05/10/77	0	1690	3734N	11906E	54.1	114.5	GGGG			130	34
2839-01435	00000/0000	2-20043/1734	05/10/77	10	1690	3607N	11839E	54.4	112.3	GGGG			130	35
2839-01442	00000/0000	2-20043/1735	05/10/77	80	1690	3441N	11812E	54.7	110.0	GGGG			130	36
2839-01444	00000/0000	2-20043/1736	05/10/77	100	1690	3316N	11746E	54.9	107.8	GGGG			130	37
2839-01451	00000/0000	2-20043/1737	05/10/77	100	1690	3150N	11721E	55.0	105.6	GGGG			130	38
2839-01453	00000/0000	2-20043/1738	05/10/77	90	1690	3024N	11656E	55.1	103.3	GGGG			130	39
2839-01460	00000/0000	2-20043/1739	05/10/77	90	1690	2858N	11632E	55.2	101.1	GFGG			130	40
2839-01462	00000/0000	2-20043/1740	05/10/77	90	1690	2732N	11609E	55.2	98.8	GGGG			130	41
2839-01465	00000/0000	2-20043/1741	05/10/77	90	1690	2605N	11545E	55.1	96.6	GGGG			130	42
2839-01471	00000/0000	2-20043/1742	05/10/77	90	1690	2439N	11522E	55.0	94.4	GGGG			130	43
2839-01474	00000/0000	2-20043/1743	05/10/77	60	1690	2312N	11500E	54.8	92.2	GGGG			130	44
2839-05044	00000/0000	2-20043/1716	05/10/77	0	1692	5559N	07515E	46.3	140.4	GGG			166	21
2839-05050	00000/0000	2-20043/1577	05/10/77	0	1692	5434N	07427E	47.1	138.5	FFFF			166	22
2839-05053	00000/0000	2-20043/1578	05/10/77	0	1692	5310N	07342E	47.9	136.6	GGGG			166	23
2839-05055	00000/0000	2-20043/1579	05/10/77	10	1692	5146N	07300E	48.7	134.7	GGGG			166	24
2839-05062	00000/0000	2-20043/1580	05/10/77	10	1692	5021N	07220E	49.4	132.8	GGGG			166	25
2839-05064	00000/0000	2-20043/1581	05/10/77	10	1692	4856N	07142E	50.1	130.9	GGGG			166	26
2839-05071	00000/0000	2-20043/1582	05/10/77	10	1692	4731N	07105E	50.7	129.0	GGGG			166	27
2839-05073	00000/0000	2-20043/1583	05/10/77	10	1692	4605N	07031E	51.3	127.0	GGGG			166	28
2839-05080	00000/0000	2-20043/1584	05/10/77	30	1692	4440N	06957E	51.9	124.9	GGGG			166	29
2839-05082	00000/0000	2-20043/1585	05/10/77	60	1692	4315N	06925E	52.4	122.9	GGGG			166	30
2839-05085	00000/0000	2-20043/1586	05/10/77	40	1692	4150N	06854E	52.9	120.8	GGGG			166	31
2839-05091	00000/0000	2-20043/1587	05/10/77	10	1692	4024N	06824E	53.4	118.7	GGGG			166	32
2839-05094	00000/0000	2-20043/1588	05/10/77	20	1692	3859N	06755E	53.8	116.6	GGGG			166	33
2839-05100	00000/0000	2-20043/1589	05/10/77	10	1692	3733N	06726E	54.1	114.4	GGGG			166	34
2839-05221	00000/0000	2-20043/1590	05/10/77	40	1692	0417S	05650E	43.4	60.3	GGGF		H	166	63

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANKS=BAND NOT AVAILABLE. G=GOOD. P=POOR. F=FAIR.
 MSS DATA MODE (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN (BLANK)=LOW GAIN, H=HIGH GAIN

22:07 JUN 27, 1977

LANDSAT-2
OBSERVATION ID LISTING
FOR NAN-US
FROM 05/01/77 TO 05/31/77

PAGE 0067

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV MSS 123 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2839-05223	00000/0000 2-20043/1591	05/10/77	30	1692	0545S	05630E	42.5 59.7	GGGG		H	166	64
2839-05230	00000/0000 2-20043/1592	05/10/77	30	1692	0712S	05610E	41.6 58.7	GGFG		H	166	65
2839-06493	00000/0000 2-20043/1492	05/10/77	30	1693	5020N	04632E	49.4 132.8	FFFF			184	25
2839-06500	00000/0000 2-20043/1493	05/10/77	10	1693	4856N	04554E	50.1 130.9	PPFF			184	26
2839-06502	00000/0000 2-20043/1494	05/10/77	10	1693	4730N	04519E	50.7 128.9	FFFF			184	27
2839-06505	00000/0000 2-20043/1495	05/10/77	10	1693	4605N	04444E	51.3 126.9	FFFF			184	28
2839-06511	00000/0000 2-20043/1496	05/10/77	30	1693	4440N	04411E	51.9 124.9	FFFF			184	29
2839-06514	00000/0000 2-20043/1497	05/10/77	50	1693	4315N	04339E	52.5 122.9	FFFF			184	30
2839-06520	00000/0000 2-20043/1498	05/10/77	60	1693	4149N	04307E	52.9 120.8	FFFF			184	31
2839-06523	00000/0000 2-20043/1499	05/10/77	30	1693	4023N	04236E	53.4 118.7	FFFF			184	32
2839-08293	00000/0000 2-20043/1500	05/10/77	80	1694	6130N	02723E	42.9 147.8	FFFF			202	17
2839-08295	00000/0000 2-20043/1501	05/10/77	30	1694	6007N	02621E	43.8 145.9	FFFF			202	18
2839-08302	00000/0000 2-20043/1502	05/10/77	20	1694	5844N	02522E	44.7 144.0	FFFF			202	19
2839-08304	00000/0000 2-20043/1503	05/10/77	40	1694	5720N	02428E	45.6 142.2	PPPP			202	20
2839-08311	00000/0000 2-20043/1504	05/10/77	10	1694	5556N	02337E	46.4 140.3	PPPF			202	21
2839-08313	00000/0000 2-20043/1505	05/10/77	50	1694	5432N	02249E	47.2 138.4	PPPP			202	22
2839-10133	00000/0000 2-20043/1506	05/10/77	70	1695	5846N	00022W	44.7 144.1	PPPP			220	19
2839-10140	00000/0000 2-20043/1507	05/10/77	50	1695	5723N	00117W	45.5 142.2	FFPP			220	20
2839-10142	00000/0000 2-20043/1508	05/10/77	60	1695	5600N	00208W	46.4 140.3	FFPP			220	21
2839-13410	00000/0000 2-20043/1546	05/10/77	100	1697	5557N	05348W	46.4 140.3	F			5	21
2839-13412	00000/0000 2-20043/1536	05/10/77	90	1697	5434N	05435W	47.2 138.4	GG G			5	22
2839-13415	00000/0000 2-20043/1537	05/10/77	90	1697	5310N	05521W	48.0 136.6	GG G			5	23
2839-13421	00000/0000 2-20043/1538	05/10/77	90	1697	5145N	05603W	48.8 134.7	GGGG			5	24
2839-13424	00000/0000 2-20043/1539	05/10/77	90	1697	5021N	05644W	49.5 132.8	GGGG			5	25
2839-13430	00000/0000 2-20043/1540	05/10/77	90	1697	4856N	05722W	50.1 130.8	GGGG			5	26
2839-13433	00000/0000 2-20043/1541	05/10/77	100	1697	4730N	05758W	50.8 128.9	GGGF			5	27
2839-13435	00000/0000 2-20043/1542	05/10/77	90	1697	4606N	05832W	51.4 126.9	GGGF			5	28
2839-13442	00000/0000 2-20043/1543	05/10/77	100	1697	4441N	05906W	52.0 124.8	GGGG			5	29
2839-13444	00000/0000 2-20043/1544	05/10/77	100	1697	4316N	05938W	52.5 122.8	GGFG			5	30
2839-13451	00000/0000 2-20043/1545	05/10/77	50	1697	4150N	06009W	53.0 120.7	GGGG			5	31
2839-17073	00000/0000 2-20043/1547	05/10/77	50	1699	5558N	10525W	46.5 140.3	GGGG			41	21
2839-17075	00000/0000 2-20043/1548	05/10/77	90	1699	5434N	10612W	47.3 138.4	GGGF			41	22
2839-17082	00000/0000 2-20043/1549	05/10/77	50	1699	5309N	10658W	48.0 136.5	FGGG			41	23
2839-17084	00000/0000 2-20043/1550	05/10/77	10	1699	5144N	10740W	48.8 134.6	GGGG			41	24
2839-17091	00000/0000 2-20043/1551	05/10/77	10	1699	5020N	10820W	49.5 132.7	FFGG			41	25
2839-17150	00000/0000 2-20043/1552	05/10/77	10	1699	3021N	11524W	55.2 103.0	GGGG			41	39

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANKS=BAND NOT AVAILABLE, G=GOOD, P=POOR, F=FAIR,
 MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

22:07 JUN 27, 77

LANDSAT-2
OBSERVATION ID LISTING
FOR NAM-US
FROM 05/01/77 TO 05/31/77

PAGE 0068

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV MSS 123 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2839-18493	00000/0000	2-20043/1553	05/10/77	60	1700	6010N 12828W	43.9	145.9	FGGG			59	18
2839-20290	00000/0000	2-20043/1554	05/10/77	90	1701	7209N 14009W	35.2	166.2	GGGF			77	9
2839-22130	00000/0000	2-20043/1596	05/10/77	50	1702	6935N 17023W	37.3	160.7	GGGG			95	11
2840-01453	00000/0000	2-20043/1593	05/11/77	50	1704	5022N 12232E	49.6	132.7	GGGG			131	25
2840-01455	00000/0000	2-20043/1561	05/11/77	10	1704	4857N 12154E	50.2	130.8	FGGG			131	26
2840-01462	00000/0000	2-20043/1562	05/11/77	10	1704	4732N 12118E	50.9	128.8	GGGG			131	27
2840-01464	00000/0000	2-20043/1563	05/11/77	10	1704	4607N 12043E	51.5	126.8	GGGG			131	28
2840-01471	00000/0000	2-20043/1564	05/11/77	10	1704	4442N 12010E	52.1	124.8	GGGG			131	29
2840-01473	00000/0000	2-20043/1565	05/11/77	10	1704	4316N 11938E	52.6	122.7	GFGG			131	30
2840-01480	00000/0000	2-20043/1566	05/11/77	10	1704	4151N 11907E	53.1	120.6	GGGF			131	31
2840-01482	00000/0000	2-20043/1567	05/11/77	10	1704	4025N 11837E	53.5	118.5	GGGG			131	32
2840-01485	00000/0000	2-20043/1568	05/11/77	30	1704	3900N 11808E	53.9	116.3	GGGG			131	33
2840-01491	00000/0000	2-20043/1569	05/11/77	70	1704	3734N 11740E	54.3	114.1	GGGG			131	34
2840-01494	00000/0000	2-20043/1570	05/11/77	80	1704	3608N 11713E	54.6	111.9	GGGG			131	35
2840-01500	00000/0000	2-20043/1571	05/11/77	80	1704	3442N 11646E	54.8	109.7	FGGG			131	36
2840-01514	00000/0000	2-20043/1572	05/11/77	90	1704	2858N 11507E	55.3	100.7	GGGG			131	40
2840-01521	00000/0000	2-20043/1573	05/11/77	100	1704	2732N 11443E	55.3	98.4	GFGG			131	41
2840-01523	00000/0000	2-20043/1574	05/11/77	100	1704	2606N 11420E	55.2	96.2	GGGG			131	42
2840-01530	00000/0000	2-20043/1575	05/11/77	80	1704	2439N 11357E	55.1	94.0	FFGG			131	43
2840-01532	00000/0000	2-20043/1576	05/11/77	60	1704	2312N 11334E	54.9	91.8	FGGG			131	44
2840-03270	00000/0000	2-20043/1594	05/11/77	70	1705	5559N 09941E	46.6	140.2	GGGG			149	21
2840-03273	00000/0000	2-20043/1595	05/11/77	70	1705	5435N 09853E	47.4	138.4	GGGG			149	22
2840-05095	00000/0000	2-20043/1717	05/11/77	10	1706	5722N 07441E	45.7	142.1	GGGG			167	20
2840-05102	00000/0000	2-20043/1718	05/11/77	10	1706	5558N 07351E	46.6	140.2	GGGG			167	21
2840-05104	00000/0000	2-20043/1719	05/11/77	10	1706	5434N 07303E	47.4	138.3	GGGG			167	22
2840-05111	00000/0000	2-20043/1720	05/11/77	10	1706	5310N 07218E	48.1	136.5	GGGG			167	23
2840-05113	00000/0000	2-20043/1721	05/11/77	10	1706	5145N 07135E	48.9	134.6	GGGG			167	24
2840-05120	00000/0000	2-20043/1722	05/11/77	10	1706	5020N 07055E	49.6	132.6	GGGG			167	25
2840-05122	00000/0000	2-20043/1723	05/11/77	10	1706	4856N 07017E	50.3	130.7	GGGG			167	26
2840-05140	00000/0000	2-20043/1724	05/11/77	10	1706	4315N 06759E	52.6	122.6	GGGG			167	30
2840-05143	00000/0000	2-20043/1596	05/11/77	10	1706	4150N 06728E	53.1	120.5	GGGG			167	31
2840-05145	00000/0000	2-20043/1597	05/11/77	20	1706	4024N 06658E	53.6	118.4	GGGG			167	32
2840-05152	00000/0000	2-20043/1598	05/11/77	10	1706	3858N 06629E	54.0	116.2	GGGG			167	33
2840-06522	00000/0000	2-20043/1599	05/11/77	60	1707	6008N 05043E	44.0	145.8	GGGG			185	18
2840-06524	00000/0000	2-20043/1600	05/11/77	40	1707	5845N 04946E	44.9	143.9	GGGG			185	19
2840-06531	00000/0000	2-20043/1601	05/11/77	60	1707	5721N 04851E	45.8	142.1	GGGG			185	20

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANKS=BAND NOT AVAILABLE, G=GOOD, P=POOR, F=FAIR.
 MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

22107 JUN 27, 177

LANDSAT-2
OBSERVATION ID LISTING
FOR NNN=US
FROM 05/01/77 TO 05/31/77

PAGE 0069

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSG	DATE ACQUIRED	CLOUD COVER	SPPY NUMBER	PRINCIPAL POINT OF IMAGE LAT LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV MSS 123 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2840-06542	00000/0000	2-20043/1289	05/11/77	40	1707	5309N	04628E	48.2 136.4	FFGF			185	23
2840-06545	00000/0000	2-20043/1290	05/11/77	30	1707	5144N	04545E	48.9 134.5	FFGF			185	24
2840-06551	00000/0000	2-20043/1291	05/11/77	30	1707	5020N	04505E	49.6 132.6	FFFF			185	25
2840-06554	00000/0000	2-20043/1292	05/11/77	10	1707	4855N	04426E	50.3 130.7	GFGG			185	26
2840-06560	00000/0000	2-20043/1293	05/11/77	10	1707	4730N	04350E	50.9 128.7	FFGG			185	27
2840-06563	00000/0000	2-20043/1294	05/11/77	20	1707	4605N	04316E	51.6 126.7	FFGG			185	28
2840-06565	00000/0000	2-20043/1295	05/11/77	30	1707	4440N	04243E	52.1 124.7	FFGG			185	29
2840-06574	00000/0000	2-20043/1296	05/11/77	60	1707	4149N	04139E	53.1 120.5	FFF			185	31
2840-08353	00000/0000	2-20043/1297	05/11/77	80	1708	6007N	02456E	44.1 145.8	GG G			203	18
2840-08360	00000/0000	2-20043/1298	05/11/77	80	1708	5844N	02358E	44.9 143.9	FGGG			203	19
2840-08362	00000/0000	2-20043/1299	05/11/77	80	1708	5721N	02303E	45.8 142.0	GGFF			203	20
2840-08365	00000/0000	2-20043/1300	05/11/77	70	1708	5557N	02213E	46.6 140.2	GGFF			203	21
2840-08371	00000/0000	2-20043/1301	05/11/77	80	1708	5433N	02125E	47.4 138.3	GGGG			203	22
2840-08374	00000/0000	2-20043/1302	05/11/77	60	1708	5309N	02040E	48.2 136.4	GGGG			203	23
2840-10182	00000/0000	2-20043/1303	05/11/77	60	1709	6132N	00012E	43.2 147.8	GGGG			221	17
2840-10185	00000/0000	2-20043/1304	05/11/77	90	1709	6010N	00050W	44.1 145.9	GGGG			221	18
2840-10194	00000/0000	2-20043/1305	05/11/77	100	1709	5723N	00243W	45.8 142.1	FGGF			221	20
2840-10200	00000/0000	2-20043/1306	05/11/77	90	1709	5559N	00334W	46.6 140.2	GGFF			221	21
2840-10203	00000/0000	2-20043/1307	05/11/77	80	1709	5435N	00422W	47.4 138.3	GGFF			221	22
2840-10205	00000/0000	2-20043/1308	05/11/77	70	1709	5311N	00507W	48.2 136.4	FFFG			221	23
2840-10212	00000/0000	2-20043/1309	05/11/77	60	1709	5146N	00550W	48.9 134.5	FFFG			221	24
2840-13384	00000/0000	2-20043/1602	05/11/77	10	1711	7937N	00809W	27.8 199.1	GGGG			7	2
2840-13464	00000/0000	2-20043/1664	05/11/77	100	1711	5558N	05512W	46.7 140.1	FGGG			6	21
2840-13470	00000/0000	2-20043/1665	05/11/77	90	1711	5434N	05600W	47.5 138.3	FGGF			6	22
2840-13473	00000/0000	2-20043/1666	05/11/77	80	1711	5309N	05645W	48.2 136.4	FGGG			6	23
2840-13475	00000/0000	2-20043/1667	05/11/77	60	1711	5145N	05727W	49.0 134.5	FGGF			6	24
2840-13482	00000/0000	2-20043/1668	05/11/77	90	1711	5020N	05808W	49.7 132.6	GGFF			6	25
2840-13484	00000/0000	2-20043/1669	05/11/77	90	1711	4855N	05846W	50.4 130.6	FGGG			6	26
2840-13491	00000/0000	2-20043/1670	05/11/77	90	1711	4731N	05922W	51.0 128.6	FFFG			6	27
2840-13493	00000/0000	2-20043/1671	05/11/77	80	1711	4606N	05957W	51.6 126.6	GGGG			6	28
2840-13500	00000/0000	2-20043/1672	05/11/77	60	1711	4441N	06031W	52.2 124.6	FGGG			6	29
2840-13502	00000/0000	2-20043/1673	05/11/77	70	1711	4315N	06103W	52.7 122.5	GGGG			6	30
2840-13505	00000/0000	2-20043/1674	05/11/77	80	1711	4150N	06134W	53.2 120.4	GFGG			6	31
2840-20344	00000/0000	2-20043/1695	05/11/77	100	1715	7209N	14135W	35.4 166.2	GGGG			78	9
2841-01511	00000/0000	2-20043/1603	05/12/77	50	1718	5022N	12107E	49.8 132.5	GGGF			132	25
2841-01513	00000/0000	2-20043/1604	05/12/77	60	1718	4857N	12028E	50.5 130.5	GGGG			132	26

KEYS: CLOUD COVER X 0 TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANKS=BAND NOT AVAILABLE, G=GOOD, P=POOR, F=FAIR.
 MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

22:07 JUN 27, 77

LANDSAT-2
OBSERVATION ID LISTING
FOR NNN-US
FROM 05/01/77 TO 05/31/77

PAGE 0070

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV MSS 123 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2841-01520	00000/0000	2-20043/1605	05/12/77	50	1718	4732N	11952E	51.1	128.6	GGGG		132	27
2841-01522	00000/0000	2-20043/1606	05/12/77	50	1718	4607N	11917E	51.7	126.5	GGGG		132	28
2841-01525	00000/0000	2-20043/1607	05/12/77	40	1718	4441N	11844E	52.3	124.5	GGGG		132	29
2841-01531	00000/0000	2-20043/1608	05/12/77	10	1718	4316N	11812E	52.8	122.4	GGGG		132	30
2841-01534	00000/0000	2-20043/1609	05/12/77	30	1718	4150N	11741E	53.3	120.3	GGGG		132	31
2841-01540	00000/0000	2-20043/1610	05/12/77	30	1718	4025N	11711E	53.7	118.2	GGGG		132	32
2841-01543	00000/0000	2-20043/1611	05/12/77	10	1718	3859N	11642E	54.1	116.0	GGGG		132	33
2841-01545	00000/0000	2-20043/1612	05/12/77	0	1718	3734N	11614E	54.4	113.8	GGGG		132	34
2841-01552	00000/0000	2-20043/1613	05/12/77	10	1718	3608N	11547E	54.7	111.6	GGGG		132	35
2841-01554	00000/0000	2-20043/1614	05/12/77	30	1718	3442N	11520E	55.0	109.3	GGGG		132	36
2841-01570	00000/0000	2-20043/1711	05/12/77	70	1718	3025N	11405E	55.4	102.5	GGG		132	39
2841-01572	00000/0000	2-20043/1712	05/12/77	60	1718	2859N	11341E	55.4	100.2	GGGG		132	40
2841-01575	00000/0000	2-20043/1713	05/12/77	90	1718	2733N	11317E	55.4	98.0	GGGG		132	41
2841-01581	00000/0000	2-20043/1714	05/12/77	90	1718	2605N	11254E	55.3	95.8	GGGG		132	42
2841-01584	00000/0000	2-20043/1715	05/12/77	90	1718	2439N	11231E	55.2	93.5	GGGG		132	43
2841-03324	00000/0000	2-20043/1744	05/12/77	40	1719	5559N	09816E	46.8	140.1	GGGG		150	21
2841-05160	00000/0000	2-20043/1745	05/12/77	30	1720	5559N	07224E	46.8	140.1	GGGG		168	21
2841-05162	00000/0000	2-20043/1746	05/12/77	20	1720	5435N	07137E	47.6	138.2	GGGG		168	22
2841-05165	00000/0000	2-20043/1747	05/12/77	20	1720	5310N	07052E	48.4	136.3	GGGG		168	23
2841-05171	00000/0000	2-20043/1748	05/12/77	20	1720	5145N	07010E	49.1	134.4	GGGG		168	24
2841-05174	00000/0000	2-20043/1749	05/12/77	10	1720	5021N	06929E	49.8	132.4	GGGG		168	25
2841-05180	00000/0000	2-20043/1750	05/12/77	30	1720	4856N	06851E	50.5	130.5	GGGG		168	26
2841-05183	00000/0000	2-20043/1751	05/12/77	20	1720	4731N	06814E	51.1	128.5	GGGG		168	27
2841-05185	00000/0000	2-20043/1752	05/12/77	10	1720	4606N	06739E	51.7	126.5	GGGG		168	28
2841-05192	00000/0000	2-20043/1753	05/12/77	10	1720	4441N	06705E	52.3	124.4	GGGG		168	29
2841-05194	00000/0000	2-20043/1754	05/12/77	10	1720	4315N	06633E	52.8	122.3	GGGG		168	30
2841-05201	00000/0000	2-20043/1755	05/12/77	20	1720	4150N	06602E	53.3	120.2	GGGG		168	31
2841-05203	00000/0000	2-20043/1756	05/12/77	40	1720	4024N	06532E	53.7	118.1	GGGG		168	32
2841-05210	00000/0000	2-20043/1757	05/12/77	50	1720	3858N	06503E	54.1	115.9	GGGG		168	33
2841-13515	00000/0000	2-20043/1697	05/12/77	90	1725	5722N	05547W	46.1	141.9	GGGG		7	20
2841-13522	00000/0000	2-20043/1698	05/12/77	90	1725	5558N	05639W	46.9	140.0	GGGG		7	21
2841-13524	00000/0000	2-20043/1699	05/12/77	80	1725	5434N	05727W	47.7	138.1	GGGG		7	22
2841-13533	00000/0000	2-20043/1700	05/12/77	20	1725	5145N	05854W	49.2	134.3	GGGG		7	24
2841-13540	00000/0000	2-20043/1701	05/12/77	10	1725	5020N	05934W	49.9	132.4	GGGG		7	25
2841-13542	00000/0000	2-20043/1702	05/12/77	10	1725	4856N	06012W	50.6	130.4	GGGG		7	26
2841-13545	00000/0000	2-20043/1703	05/12/77	40	1725	4731N	06049W	51.2	128.4	GGGG		7	27

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANKS=BAND NOT AVAILABLE. G=GOOD. P=POOR. F=FAIR.
 MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

22107 JUN 27, 1977

LANDSAT-2
OBSERVATION ID LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0071

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2841-13551	00000/0000	2-20043/1704	05/12/77	30	1725	4606N	06124W	51.8	126.4	G000	7	28
2841-13554	00000/0000	2-20043/1705	05/12/77	10	1725	4440N	06157W	52.4	124.3	G000	7	29
2841-13560	00000/0000	2-20043/1706	05/12/77	10	1725	4315N	06230W	52.9	122.2	G000	7	30
2841-13563	00000/0000	2-20043/1707	05/12/77	10	1725	4149N	06301W	53.4	120.1	G000	7	31
2841-17130	00000/0000	2-20043/1758	05/12/77	10	1727	7434N	08547W	33.6	172.8	G000	44	7
2841-17194	00000/0000	2-20043/1708	05/12/77	0	1727	5309N	10950W	48.5	136.2	F000	43	23
2841-17200	00000/0000	2-20043/1709	05/12/77	0	1727	5145N	11032W	49.2	134.2	G000	43	24
2841-17203	00000/0000	2-20043/1710	05/12/77	0	1727	5020N	11113W	49.9	132.3	F000	43	25
2841-19002	00000/0000	2-20043/1763	05/12/77	70	1728	6133N	13018W	43.5	147.6	P000	61	17
2841-20402	00000/0000	2-20043/1764	05/12/77	70	1729	7210N	14302W	35.7	166.2	G00F	79	9
2842-01571	00000/0000	2-20043/1759	05/13/77	10	1732	4858N	11904E	50.7	130.3	G000	133	26
2842-01585	00000/0000	2-20043/1760	05/13/77	20	1732	4317N	11646E	53.0	122.1	G000	133	30
2842-01592	00000/0000	2-20043/1761	05/13/77	70	1732	4151N	11615E	53.4	120.0	G000	133	31
2842-01594	00000/0000	2-20043/1762	05/13/77	80	1732	4026N	11545E	53.9	117.9	G000	133	32
2842-02001	00000/0000	2-20043/1615	05/13/77	90	1732	3900N	11516E	54.3	115.7	G000	133	33
2842-02003	00000/0000	2-20043/1616	05/13/77	100	1732	3734N	11448E	54.6	113.4	G000	133	34
2842-02010	00000/0000	2-20043/1617	05/13/77	100	1732	3608N	11421E	54.9	111.2	G000	133	35
2842-02012	00000/0000	2-20043/1618	05/13/77	100	1732	3442N	11354E	55.1	108.9	G000	133	36
2842-02015	00000/0000	2-20043/1619	05/13/77	100	1732	3316N	11328E	55.3	106.7	G000	133	37
2842-02021	00000/0000	2-20043/1620	05/13/77	100	1732	3150N	11304E	55.4	104.4	G000	133	38
2842-02033	00000/0000	2-20043/1621	05/13/77	100	1732	2732N	11152E	55.5	97.6	G000	133	41
2842-02035	00000/0000	2-20043/1622	05/13/77	80	1732	2606N	11129E	55.4	95.3	G000	133	42
2842-02042	00000/0000	2-20043/1623	05/13/77	80	1732	2439N	11106E	55.2	93.1	G000	133	43
2842-02112	00000/0000	2-20043/1624	05/13/77	40	1732	0003N	10512E	45.8	63.3	G000	133	60
2842-02115	00000/0000	2-20043/1625	05/13/77	40	1732	0123S	10452E	44.9	62.1	G000	133	61
2842-02121	00000/0000	2-20043/1626	05/13/77	40	1732	0250S	10432E	44.0	60.9	G000	133	62
2842-02124	00000/0000	2-20043/1627	05/13/77	40	1732	0417S	10412E	43.1	59.9	G000	133	63
2842-03380	00000/0000	2-20043/1517	05/13/77	90	1733	5723N	09738E	46.2	141.8	G000	151	20
2842-03382	00000/0000	2-20043/1518	05/13/77	90	1733	5559N	09647E	47.0	139.9	G00F	151	21
2842-03385	00000/0000	2-20043/1519	05/13/77	80	1733	5435N	09600E	47.8	138.0	G00F	151	22
2842-03391	00000/0000	2-20043/1520	05/13/77	80	1733	5311N	09515E	48.6	136.1	G00F	151	23
2842-03394	00000/0000	2-20043/1521	05/13/77	30	1733	5146N	09432E	49.3	134.2	G000	151	24
2842-05211	00000/0000	2-20043/1522	05/13/77	10	1734	5723N	07150E	46.2	141.8	FF0F	169	20
2842-05214	00000/0000	2-20043/1523	05/13/77	10	1734	5559N	07100E	47.0	139.9	FF0F	169	21
2842-05220	00000/0000	2-20043/1524	05/13/77	70	1734	5434N	07012E	47.8	138.0	G00F	169	22
2842-05223	00000/0000	2-20043/1525	05/13/77	40	1734	5310N	06927E	48.6	136.1	FFFF	169	23

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANKS=BLANKS NOT AVAILABLE. G=G000, P=P000, F=FAIR.
 MSS DATA MODE (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN (BLANK)=LOW GAIN, H=HIGH GAIN

22:07 JUN 27, 1977

LANDSAT-2
OBSERVATION ID LISTING
FOR NNN=US
FROM 05/01/77 TO 05/31/77

PAGE 0072

OBSERVATION ID	MICROFILM ROLL NO./ POSITION IN ROLL RBV	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL PRINT OF IMAGE LAT	LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV MSS 123 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2842-05250	00000/0000 2-20043/1526	05/13/77	0	1734	4441N	06540E	52.5	124.2	GGGG			169	29
2842-05252	00000/0000 2-20043/1527	05/13/77	0	1734	4316N	06508E	53.0	122.1	FGGF			169	30
2842-05255	00000/0000 2-20043/1528	05/13/77	0	1734	4150N	06436E	53.5	119.9	FGGF			169	31
2842-05261	00000/0000 2-20043/1529	05/13/77	10	1734	4024N	06406E	53.9	117.8	GGFF			169	32
2842-17252	00000/0000 2-20043/1765	05/13/77	10	1741	5310N	11117W	48.7	136.0	FFGG			44	23
2842-17255	00000/0000 2-20043/1766	05/13/77	0	1741	5145N	11159W	49.4	134.1	GGGG			44	24
2842-17261	00000/0000 2-20043/1767	05/13/77	10	1741	5020N	11240W	50.1	132.1	GFGG			44	25
2843-02023	00000/0000 2-20043/1530	05/14/77	10	1746	5020N	11813E	50.2	132.0	FFGG			134	25
2843-02025	00000/0000 2-20043/1531	05/14/77	10	1746	4855N	11734E	50.9	130.0	FFFF			134	26
2843-02043	00000/0000 2-20043/1532	05/14/77	0	1746	4313N	11518E	53.2	121.8	FGGG			134	30
2843-02050	00000/0000 2-20043/1533	05/14/77	0	1746	4147N	11447E	53.6	119.6	FFGG			134	31
2843-02052	00000/0000 2-20043/1534	05/14/77	0	1746	4022N	11417E	54.1	117.5	FGGF			134	32
2843-02055	00000/0000 2-20043/1535	05/14/77	10	1746	3856N	11347E	54.4	115.3	FFFF			134	33
2843-02064	00000/0000 2-20043/1833	05/14/77	20	1746	3604N	11252E	55.0	110.8	GGGG			134	35
2843-02070	00000/0000 2-20043/1834	05/14/77	30	1746	3439N	11226E	55.2	108.5	FFFF			134	36
2843-02073	00000/0000 2-20043/1835	05/14/77	80	1746	3313N	11201E	55.4	106.2	GFGG			134	37
2843-02075	00000/0000 2-20043/1836	05/14/77	90	1746	3147N	11136E	55.5	103.9	GGGG			134	38
2843-02082	00000/0000 2-20043/1837	05/14/77	100	1746	3021N	11112E	55.6	101.6	GGGG			134	39
2843-02084	00000/0000 2-20043/1838	05/14/77	100	1746	2855N	11048E	55.6	99.4	GGGG			134	40
2843-02091	00000/0000 2-20043/1839	05/14/77	90	1746	2729N	11024E	55.5	97.1	GGGG			134	41
2843-03455	00000/0000 2-20043/1768	05/14/77	40	1747	5018N	09226E	50.2	132.0	FFGG			152	25
2843-03461	00000/0000 2-20043/1769	05/14/77	30	1747	4854N	09147E	50.9	130.0	GFGF			152	26
2843-03464	00000/0000 2-20043/1770	05/14/77	10	1747	4729N	09110E	51.5	128.0	GGGF			152	27
2843-03470	00000/0000 2-20043/1771	05/14/77	0	1747	4604N	09035E	52.1	125.9	FGGF			152	28
2843-03473	00000/0000 2-20043/1772	05/14/77	10	1747	4438N	09002E	52.7	123.9	FGGF			152	29
2843-03475	00000/0000 2-20043/1773	05/14/77	10	1747	4313N	08929E	53.2	121.7	FGGF			152	30
2843-03482	00000/0000 2-20043/1774	05/14/77	10	1747	4148N	08858E	53.6	119.6	GGG			152	31
2843-03484	00000/0000 2-20043/1775	05/14/77	90	1747	4022N	08827E	54.1	117.4	GFGG			152	32
2843-03491	00000/0000 2-20043/1776	05/14/77	90	1747	3857N	08758E	54.4	115.2	GFGF			152	33
2843-03500	00000/0000 2-20043/1777	05/14/77	50	1747	3605N	08704E	55.0	110.7	GGGG			152	35
2843-03502	00000/0000 2-20043/1778	05/14/77	40	1747	3439N	08637E	55.2	108.5	GGGG			152	36
2843-03505	00000/0000 2-20043/1779	05/14/77	20	1747	3313N	08612E	55.4	106.2	GGGG			152	37
2843-03511	00000/0000 2-20043/1780	05/14/77	10	1747	3146N	08546E	55.5	103.9	GGGG			152	38
2843-03514	00000/0000 2-20043/1781	05/14/77	10	1747	3020N	08521E	55.6	101.6	GGGG			152	39
2843-03520	00000/0000 2-20043/1782	05/14/77	10	1747	2854N	08458E	55.6	99.3	GGGG			152	40
2843-03523	00000/0000 2-20043/1783	05/14/77	10	1747	2728N	08434E	55.5	97.0	FGGF			152	41

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANKS=BLANK NOT AVAILABLE. G=GOOD. P=POOR. F=FAIR.
 MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

22:07 JUN 27, 177

LANDSAT-2
OBSERVATION ID LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0073

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO. IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV MSS 123 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2843-03525	00000/0000	2-20043/1784	05/14/77	0	1747	2601N 08412E	55.4	94.8	FGGF			152	42
2843-03532	00000/0000	2-20043/1785	05/14/77	0	1747	2435N 08349E	55.3	92.6	FGGF			152	43
2843-03534	00000/0000	2-20043/1786	05/14/77	0	1747	2308N 08327E	55.1	90.4	FGGF			152	44
2843-03541	00000/0000	2-20043/1787	05/14/77	0	1747	2142N 08305E	54.8	88.2	FFGG			152	45
2843-03543	00000/0000	2-20043/1788	05/14/77	0	1747	2015N 08243E	54.5	86.1	FFGF			152	46
2843-03550	00000/0000	2-20043/1789	05/14/77	10	1747	1849N 08221E	54.1	84.1	FFGF			152	47
2843-03552	00000/0000	2-20043/1790	05/14/77	10	1747	1722N 08159E	53.7	82.0	FFGF			152	48
2843-03555	00000/0000	2-20043/1791	05/14/77	10	1747	1555N 08138E	53.3	80.1	FFFF			152	49
2843-03557	00000/0000	2-20043/1792	05/14/77	10	1747	1428N 08117E	52.8	78.2	FFFF			152	50
2843-03564	00000/0000	2-20043/1793	05/14/77	10	1747	1301N 08056E	52.2	76.4	FFFF			152	51
2843-05293	00000/0000	2-20043/1794	05/14/77	10	1748	4857N 06559E	50.9	130.1	GGGG			170	26
2843-05295	00000/0000	2-20043/1795	05/14/77	10	1748	4732N 06523E	51.5	128.0	GGGG			170	27
2843-05302	00000/0000	2-20043/1796	05/14/77	10	1748	4607N 06447E	52.1	126.0	FGGG			170	28
2843-05304	00000/0000	2-20043/1797	05/14/77	10	1748	4441N 06413E	52.7	123.9	GGGG			170	29
2843-05311	00000/0000	2-20043/1798	05/14/77	10	1748	4316N 06341E	53.2	121.8	GFGG			170	30
2843-05313	00000/0000	2-20043/1799	05/14/77	10	1748	4151N 06310E	53.6	119.6	GFGG			170	31
2843-05320	00000/0000	2-20043/1800	05/14/77	0	1748	4025N 06240E	54.1	117.5	FGGF			170	32
2843-05322	00000/0000	2-20043/1801	05/14/77	0	1748	3859N 06211E	54.4	115.3	GGGG			170	33
2843-05325	00000/0000	2-20043/1802	05/14/77	0	1748	3733N 06143E	54.8	113.0	GGGG			170	34
2843-05331	00000/0000	2-20043/1803	05/14/77	0	1748	3608N 06115E	55.0	110.8	FGGF			170	35
2843-05334	00000/0000	2-20043/1804	05/14/77	0	1748	3442N 06048E	55.3	108.5	GGGG			170	36
2843-05340	00000/0000	2-20043/1805	05/14/77	0	1748	3316N 06022E	55.4	106.2	GFGG			170	37
2843-05343	00000/0000	2-20043/1806	05/14/77	0	1748	3149N 05957E	55.5	103.9	GGGF			170	38
2843-05345	00000/0000	2-20043/1807	05/14/77	0	1748	3022N 05933E	55.6	101.6	FGGF			170	39
2843-05352	00000/0000	2-20043/1808	05/14/77	0	1748	2856N 05908E	55.6	99.4	FFFF			170	40
2843-05354	00000/0000	2-20043/1809	05/14/77	0	1748	2729N 05845E	55.6	97.1	FFGF			170	41
2843-05361	00000/0000	2-20043/1810	05/14/77	0	1748	2603N 05822E	55.4	94.8	FFFF			170	42
2843-14131	00000/0000	2-20043/1832	05/14/77	80	1753	2311N 07126W	55.1	90.3	GGGG			9	44
2843-15481	00000/0000	2-20044/0041	05/14/77	10	1754	5146N 08734W	49.6	133.9	PGFG			27	24
2843-15484	00000/0000	2-20044/0042	05/14/77	10	1754	5021N 08814W	50.3	131.9	GGGG			27	25
2843-17304	00000/0000	2-20044/0028	05/14/77	30	1755	5434N 11157W	48.2	137.8	GGG			45	22
2843-17310	00000/0000	2-20044/0029	05/14/77	10	1755	5309N 11242W	48.9	135.8	GGGG			45	23
2843-17312	00000/0000	2-20044/0030	05/14/77	10	1755	5146N 11325W	49.7	133.9	GGGF			45	24
2843-17315	00000/0000	2-20044/0031	05/14/77	50	1755	5021N 11405W	50.3	131.9	GGG			45	25
2844-02145	00000/0000	2-20045/1812	05/15/77	90	1760	2729N 10859E	55.6	96.7	GG G			135	41
2844-02152	00000/0000	2-20045/1813	05/15/77	90	1760	2603N 10836E	55.5	94.4	GGGG			135	42

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
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 MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

22:07 JUN 27, 1977

LANDSAT-2
OBSERVATION ID LISTING
FOR NNN-US
FROM 05/01/77 TO 05/31/77

PAGE 0074

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT LONG	SUN ELEV.	SUN AZIM.	IMAGE=QUAL RBV MSS 123 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2844-02154	00000/0000	2-20043/1814	05/15/77	90	1760	2437N 10813E	55.3	92.2	FGFG			135	43
2844-03492	00000/0000	2-20044/0001	05/15/77	80	1761	5720N 09445E	46.7	141.5	GGGG			153	20
2844-03495	00000/0000	2-20044/0002	05/15/77	70	1761	5556N 09355E	47.5	139.6	GGGG			153	21
2844-03501	00000/0000	2-20044/0003	05/15/77	90	1761	5432N 09308E	48.3	137.7	GGGG			133	22
2844-03504	00000/0000	2-20044/0004	05/15/77	80	1761	5308N 09223E	49.0	135.7	GGGG			153	23
2844-03531	00000/0000	2-20044/0005	05/15/77	30	1761	4439N 08836E	52.9	123.6	GGGG			153	29
2844-03533	00000/0000	2-20044/0006	05/15/77	60	1761	4314N 08803E	53.4	121.5	GGGG			153	30
2844-05324	00000/0000	2-20044/0007	05/15/77	10	1762	5724N 06858E	46.6	141.6	GGGG			171	20
2844-05330	00000/0000	2-20044/0008	05/15/77	10	1762	5600N 06807E	47.5	139.6	GGGG			171	21
2844-05333	00000/0000	2-20044/0009	05/15/77	10	1762	5435N 06719E	48.3	137.7	GGGG			171	22
2844-05335	00000/0000	2-20044/0010	05/15/77	50	1762	5311N 06634E	49.0	135.8	GGGG			171	23
2844-05383	00000/0000	2-20044/0011	05/15/77	10	1762	3733N 06018E	54.9	112.7	GGGG			171	34
2844-15542	00000/0000	2-20043/1815	05/15/77	90	1768	5022N 08942W	50.5	131.7	GGFG			28	25
2844-16015	00000/0000	2-20043/1811	05/15/77	40	1768	2437N 09817W	55.4	92.0	FGGG			28	43
2844-17280	00000/0000	2-20044/0012	05/15/77	30	1769	7939N 06534W	28.8	199.2	GGGG			48	1
2844-17300	00000/0000	2-20044/0013	05/15/77	40	1769	7436N 09006W	34.3	172.8	GFGG			47	7
2844-17353	00000/0000	2-20043/1817	05/15/77	30	1769	5722N 11145W	46.8	141.5	GGFG			46	20
2844-17355	00000/0000	2-20043/1818	05/15/77	90	1769	5558N 11236W	47.6	139.5	GGGG			46	21
2844-17362	00000/0000	2-20043/1819	05/15/77	90	1769	5434N 11323W	48.4	137.6	GGGG			46	22
2844-17364	00000/0000	2-20043/1820	05/15/77	100	1769	5310N 11408W	49.1	135.7	GFGF			46	23
2844-17371	00000/0000	2-20043/1821	05/15/77	100	1769	5145N 11451W	49.9	133.7	GGGG			46	24
2844-17373	00000/0000	2-20043/1822	05/15/77	90	1769	5021N 11531W	50.5	131.7	GGGG			46	25
2844-20540	00000/0000	2-20043/1823	05/15/77	50	1771	8017N 10945W	27.8	206.8	GGGG			66	248
2844-20543	00000/0000	2-20043/1824	05/15/77	10	1771	7936N 11714W	28.9	199.1	GGGG			83	2
2844-20545	00000/0000	2-20043/1825	05/15/77	10	1771	7847N 12342W	30.0	192.3	GGGP			83	3
2844-20552	00000/0000	2-20043/1826	05/15/77	70	1771	7751N 12917W	31.1	186.3	GGGG			83	4
2844-20554	00000/0000	2-20043/1827	05/15/77	80	1771	7650N 13405W	32.2	181.2	GGGG			83	5
2844-20561	00000/0000	2-20043/1828	05/15/77	60	1771	7544N 13810W	33.3	176.7	GGGG			83	6
2844-20563	00000/0000	2-20043/1829	05/15/77	20	1771	7434N 14140W	34.3	172.7	GGGG			83	7
2844-20570	00000/0000	2-20043/1830	05/15/77	50	1771	7322N 14442W	35.4	169.2	GGFG			82	8
2844-20572	00000/0000	2-20043/1831	05/15/77	70	1771	7208N 14721W	36.4	166.0	GGGG			82	9
2845-02133	00000/0000	2-20044/0014	05/16/77	70	1774	5145N 11602E	49.9	133.6	GGGG			136	24
2845-02135	00000/0000	2-20044/0015	05/16/77	20	1774	5020N 11522E	50.6	131.6	GGGG			136	25
2845-02162	00000/0000	2-20044/0016	05/16/77	10	1774	4149N 11156E	54.0	119.1	GGGG			136	31
2845-02165	00000/0000	2-20044/0017	05/16/77	10	1774	4024N 11126E	54.4	116.9	GGGG			136	32
2845-02171	00000/0000	2-20044/0018	05/16/77	10	1774	3858N 11057E	54.7	114.6	GGGG			136	33

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22:07 JUN 27, 1977

LANDSAT-2
OBSERVATION ID LISTING
FOR NNN=US
FROM 05/01/77 TO 05/31/77

PAGE 0075

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL OF IMAGE LAT	PRINT LONG	SUN ELEV.	SUN AZIM.	IMAGE=QUAL RBV MSS DATA 123 45678 MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2845-02174	00000/0000	2-20044/0019	05/16/77	10	1774	3732N	11028E	55.0	112.4	GGGG		136	24
2845-03550	00000/0000	2-20043/1840	05/16/77	90	1775	5721N	09321E	46.9	141.4	GGGG		154	20
2845-03553	00000/0000	2-20043/1841	05/16/77	80	1775	5557N	09230E	47.7	139.4	GGGG		154	21
2845-03555	00000/0000	2-20043/1842	05/16/77	90	1775	5434N	09143E	48.5	137.5	GGGG		154	22
2845-03562	00000/0000	2-20043/1843	05/16/77	90	1775	5309N	09057E	49.2	135.6	GGGG		154	23
2845-03564	00000/0000	2-20044/0080	05/16/77	20	1775	5145N	09014E	49.9	133.6	G		154	24
2845-03571	00000/0000	2-20044/0081	05/16/77	0	1775	5020N	08934E	50.6	131.6	GGGG		154	25
2845-03573	00000/0000	2-20044/0082	05/16/77	0	1775	4855N	08855E	51.3	129.6	GGGG		154	26
2845-03580	00000/0000	2-20044/0083	05/16/77	0	1775	4730N	08819E	51.9	127.5	GGGG		154	27
2845-03582	00000/0000	2-20044/0084	05/16/77	0	1775	4604N	08744E	52.5	125.5	GGGG		154	28
2845-03585	00000/0000	2-20043/1844	05/16/77	10	1775	4439N	08710E	53.0	123.4	GGG		154	29
2845-03591	00000/0000	2-20043/1845	05/16/77	70	1775	4314N	08637E	53.5	121.2	GGGG		154	30
2845-03594	00000/0000	2-20044/0085	05/16/77	40	1775	4148N	08606E	54.0	119.0	GGGG		154	31
2845-04000	00000/0000	2-20044/0086	05/16/77	20	1775	4022N	08537E	54.4	116.8	GGGG		154	32
2845-04003	00000/0000	2-20044/0087	05/16/77	40	1775	3858N	08508E	54.7	114.6	GGGG		154	33
2845-04005	00000/0000	2-20044/0088	05/16/77	40	1775	3732N	08439E	55.0	112.3	GGGG		154	34
2845-04012	00000/0000	2-20044/0089	05/16/77	60	1775	3606N	08412E	55.3	110.1	GGGG		154	35
2845-04014	00000/0000	2-20044/0090	05/16/77	60	1775	3440N	08345E	55.5	107.8	GGGG		154	36
2845-04021	00000/0000	2-20044/0091	05/16/77	50	1775	3314N	08319E	55.6	105.5	GGGG		154	37
2845-04023	00000/0000	2-20044/0092	05/16/77	50	1775	3147N	08254E	55.7	103.1	GGGG		154	38
2845-04030	00000/0000	2-20044/0093	05/16/77	80	1775	3021N	08230E	55.8	100.8	GGGG		154	39
2845-04032	00000/0000	2-20044/0094	05/16/77	70	1775	2855N	08206E	55.8	98.5	GGGG		154	40
2845-04035	00000/0000	2-20044/0095	05/16/77	10	1775	2729N	08143E	55.7	96.3	GGGG		154	41
2845-04041	00000/0000	2-20044/0096	05/16/77	10	1775	2602N	08119E	55.6	94.0	GGGG		154	42
2845-04044	00000/0000	2-20044/0097	05/16/77	10	1775	2436N	08057E	55.4	91.8	GGGG		154	43
2845-04050	00000/0000	2-20044/0098	05/16/77	10	1775	2309N	08035E	55.2	89.6	GGGG		154	44
2845-04053	00000/0000	2-20044/0099	05/16/77	10	1775	2142N	08012E	54.9	87.4	GGGG		154	45
2845-04055	00000/0000	2-20044/0100	05/16/77	10	1775	2015N	07950E	54.5	85.3	GGGG		154	46
2845-04062	00000/0000	2-20044/0101	05/16/77	10	1775	1848N	07929E	54.2	83.3	GGGG		154	47
2845-04064	00000/0000	2-20044/0102	05/16/77	30	1775	1722N	07907E	53.7	81.3	GGGG		154	48
2845-04071	00000/0000	2-20044/0103	05/16/77	70	1775	1555N	07845E	53.2	79.3	GGGG		154	49
2845-04073	00000/0000	2-20044/0104	05/16/77	70	1775	1429N	07825E	52.7	77.4	GGGG		154	50
2845-04080	00000/0000	2-20044/0105	05/16/77	30	1775	1302N	07804E	52.2	75.6	GGGG		154	51
2845-04082	00000/0000	2-20044/0106	05/16/77	60	1775	1135N	07744E	51.6	73.9	FFFF		154	52
2845-05384	00000/0000	2-20043/1846	05/16/77	0	1776	5556N	06639E	47.7	139.4	GGGG		172	21
2845-05391	00000/0000	2-20043/1847	05/16/77	0	1776	5432N	06551E	48.5	137.5	GGGG		172	22

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22:07 JUN 27, 1977

LANDSAT-2
OBSERVATION ID LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0076

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV MSS 123 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2845-05393	00000/0000	2-20043/18 8	05/16/77	0	1776	5308N	06507E	49.2	135.5	GGGG		172	23
2845-05400	00000/0000	2-20043/18 9	05/16/77	10	1776	5144N	06425E	50.0	133.6	GGGG		172	24
2845-05402	00000/0000	2-20043/1850	05/16/77	0	1776	5019N	06345E	50.7	131.6	GGGG		172	25
2845-05405	00000/0000	2-20044/0107	05/16/77	10	1776	4854N	06306E	51.3	129.6	GGGG		172	26
2845-05411	00000/0000	2-20044/0108	05/16/77	20	1776	4730N	06229E	51.9	127.5	GGGG		172	27
2845-05414	00000/0000	2-20044/0109	05/16/77	20	1776	4605N	06154E	52.5	125.4	FFFF		172	28
2845-05420	00000/0000	2-20044/0110	05/16/77	20	1776	4439N	06120E	53.0	123.3	FFFF		172	29
2845-05423	00000/0000	2-20044/0111	05/16/77	30	1776	4313N	06048E	53.5	121.2	FFGG		172	30
2845-05425	00000/0000	2-20044/0112	05/16/77	40	1776	4148N	06017E	54.0	119.0	FGGG		172	31
2845-05432	00000/0000	2-20044/0113	05/16/77	20	1776	4022N	05947E	54.4	116.8	FFFF		172	32
2845-05434	00000/0000	2-20044/0114	05/16/77	0	1776	3856N	05919E	54.7	114.6	FGGG		172	33
2845-05441	00000/0000	2-20044/0115	05/16/77	10	1776	3730N	05851E	55.0	112.3	FGFF		172	34
2845-05443	00000/0000	2-20044/0116	05/16/77	30	1776	3605N	05824E	55.3	110.0	FGFF		172	35
2845-05450	00000/0000	2-20044/0117	05/16/77	40	1776	3439N	05757E	55.5	107.7	FGGG		172	36
2845-05452	00000/0000	2-20044/0118	05/16/77	10	1776	3313N	05730E	55.6	105.4	GGGG		172	37
2845-05455	00000/0000	2-20044/0119	05/16/77	10	1776	3147N	05705E	55.7	103.1	GGGG		172	38
2845-05461	00000/0000	2-20044/0120	05/16/77	10	1776	3020N	05641E	55.8	100.8	FGFF		172	39
2845-05464	00000/0000	2-20044/0121	05/16/77	10	1776	2854N	05617E	55.8	98.5	GGGG		172	40
2845-05470	00000/0000	2-20043/1851	05/16/77	0	1776	2727N	05553E	55.7	96.2	FGGG		172	41
2845-05473	00000/0000	2-20043/1852	05/16/77	0	1776	2601N	05530E	55.6	94.0	FGFF		172	42
2845-1416	00000/0000	2-20043/1863	05/16/77	90	1781	5147N	06438W	50.0	133.6	FGGG		11	24
2845-14164	00000/0000	2-20043/1864	05/16/77	90	1781	5022N	06518W	50.7	131.6	FGGG		11	25
2845-14171	00000/0000	2-20043/1865	05/16/77	90	1781	4857N	06556W	51.4	129.6	FGG		11	26
2845-14203	00000/0000	2-20043/1866	05/16/77	0	1781	3734N	07012W	55.1	112.3	GGGG		11	34
2845-14205	00000/0000	2-20043/1867	05/16/77	10	1781	3608N	07039W	55.3	110.0	GGGG		11	35
2845-14212	00000/0000	2-20043/1868	05/16/77	10	1781	3442N	07106W	55.5	107.7	GGGG		11	36
2845-14214	00000/0000	2-20043/1869	05/16/77	10	1781	3315N	07131W	55.7	105.4	GGGG		11	37
2845-14221	00000/0000	2-20043/1870	05/16/77	10	1781	3149N	07156W	55.8	103.1	FGGG		11	38
2845-14223	00000/0000	2-20043/1871	05/16/77	10	1781	3023N	07221W	55.8	100.7	GGGG		11	39
2845-14230	00000/0000	2-20043/1872	05/16/77	20	1781	2858N	07245W	55.8	98.4	GGGG		11	40
2845-14232	00000/0000	2-20043/1873	05/16/77	20	1781	2732N	07309W	55.7	96.2	GGGG		11	41
2845-14235	00000/0000	2-20043/1877	05/16/77	30	1781	2605N	07332W	55.6	93.9	GG		11	42
2845-14241	00000/0000	2-20043/1874	05/16/77	30	1781	2438N	07355W	55.4	91.7	GGGG	H	11	43
2845-14244	00000/0000	2-20043/1875	05/16/77	20	1781	2312N	07418W	55.2	89.5	GGGG	H	11	44
2845-14250	00000/0000	2-20043/1876	05/16/77	90	1781	2146N	07440W	54.9	87.3	GGGG	H	11	45
2845-16073	00000/0000	2-20043/1816	05/16/77	30	1782	2437N	09944W	55.4	91.6	GGFG		29	43

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22107 JUN 27, 1977

LANDSAT-2
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FROM 05/01/77 TO 05/31/77

PAGE 0077

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	SUN ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT LONG	SUN ELEV. AZIM.	IMAGE=QUAL RBV MSS 123 45678	MSS DATA MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2845-17334	00000/0000	2-20043/1853	05/16/77	40	1783	7939N	06657W	29.1 199.3	GGGG		49	1
2845-21001	00000/0000	2-20044/0020	05/16/77	20	1785	7937N	11834W	29.1 199.2	GGGG		84	2
2845-21004	00000/0000	2-20044/0021	05/16/77	40	1785	7848N	12506W	30.2 192.4	GGGG		84	3
2845-21010	00000/0000	2-20044/0022	05/16/77	80	1785	7752N	13041W	31.3 186.4	GGGF		84	4
2845-21013	00000/0000	2-20044/0023	05/16/77	80	1785	7650N	13529W	32.4 181.2	FGGF		84	5
2845-21015	00000/0000	2-20044/0024	05/16/77	80	1785	7544N	13934W	33.5 176.7	GGGF		84	6
2845-21022	00000/0000	2-20044/0025	05/16/77	50	1785	7435N	14305W	34.5 172.7	GGFF		84	7
2845-21024	00000/0000	2-20044/0026	05/16/77	20	1785	7323N	14607W	35.6 169.2	GGGG		84	8
2845-21031	00000/0000	2-20044/0027	05/16/77	70	1785	7209N	14847W	36.6 166.0	FGGG		83	9
2846-02193	00000/0000	2-20043/1854	05/17/77	60	1788	5021N	11359E	50.8 131.4	GGGG		137	25
2846-02220	00000/0000	2-20043/1855	05/17/77	0	1788	4149N	11030E	54.1 118.8	GGGG		137	31
2846-02223	00000/0000	2-20043/1856	05/17/77	10	1788	4024N	11000E	54.5 116.6	GGGG		137	32
2846-02225	00000/0000	2-20043/1857	05/17/77	10	1788	3858N	10932E	54.9 114.3	GGGF		137	33
2846-02232	00000/0000	2-20043/1858	05/17/77	10	1788	3732N	10904E	55.2 112.1	GGGF		137	34
2846-02234	00000/0000	2-20043/1859	05/17/77	60	1788	3606N	10836E	55.4 109.8	GGGF		137	35
2846-02241	00000/0000	2-20043/1860	05/17/77	90	1788	3440N	10810E	55.6 107.5	GGGF		137	36
2846-02243	00000/0000	2-20043/1861	05/17/77	100	1788	3313N	10744E	55.7 105.1	GGGF		137	37
2846-02250	00000/0000	2-20043/1862	05/17/77	90	1788	3147N	10718E	55.8 102.8	GGGF		137	38
2846-04031	00000/0000	2-20044/0043	05/17/77	10	1789	4855N	08728E	51.5 129.4	PPPP		155	26
2846-04034	00000/0000	2-20044/0044	05/17/77	10	1789	4730N	08652E	52.1 127.3	FFFF		155	27
2846-04040	00000/0000	2-20044/0045	05/17/77	10	1789	4605N	08617E	52.7 125.2	PPFF		155	28
2846-04043	00000/0000	2-20044/0046	05/17/77	60	1789	4440N	08544E	53.2 123.1	PPFF		155	29
2846-04045	00000/0000	2-20044/0047	05/17/77	30	1789	4314N	08511E	53.7 120.9	FFGF		155	30
2846-04052	00000/0000	2-20044/0048	05/17/77	40	1789	4149N	08440E	54.1 118.8	GGGF		155	31
2846-04054	00000/0000	2-20044/0049	05/17/77	10	1789	4023N	08410E	54.5 116.5	GGGF		155	32
2846-04061	00000/0000	2-20044/0050	05/17/77	0	1789	3857N	08341E	54.9 114.3	FGGG		155	33
2846-04063	00000/0000	2-20044/0051	05/17/77	0	1789	3732N	08313E	55.2 112.0	FGGG		155	34
2846-04070	00000/0000	2-20044/0052	05/17/77	10	1789	3606N	08246E	55.4 109.7	GFFG		155	35
2846-04075	00000/0000	2-20044/0053	05/17/77	10	1789	3314N	08153E	55.7 105.1	GGGG		155	37
2846-04081	00000/0000	2-20044/0054	05/17/77	30	1789	3148N	08128E	55.8 102.8	GGGG		155	38
2846-04084	00000/0000	2-20044/0055	05/17/77	10	1789	3022N	08103E	55.9 100.5	FFFF		155	39
2846-04095	00000/0000	2-20044/0056	05/17/77	10	1789	2602N	07952E	55.6 93.6	GGGG		155	42
2846-04102	00000/0000	2-20044/0057	05/17/77	10	1789	2436N	07929E	55.4 91.4	GGGG		155	43
2846-04104	00000/0000	2-20044/0058	05/17/77	0	1789	2309N	07907E	55.2 89.2	FFFF		155	44
2846-04111	00000/0000	2-20044/0059	05/17/77	10	1789	2141N	07845E	54.9 87.0	FGGG		155	45
2846-04113	00000/0000	2-20044/0060	05/17/77	0	1789	2015N	07823E	54.6 84.9	GGGF		155	46

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANKS=BAD, G=GOOD, P=POOR, F=FAIR.
 MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

22:07 JUN 27, 1977

LANDSAT-2
OBSERVATION ID LISTING
FOR NNN-US
FROM 05/01/77 TO 05/31/77

PAGE 0078

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT LONG	SUN ELEV.	SUN AZIM.	IMAGE=QUAL RBV MSS DATA 123 45678 MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER	
2846-04120	00000/0000	2-20044/0061	05/17/77	0	1789	1848N	07802E	54.2	82.9	GGGF		155	47
2846-04122	00000/0000	2-20044/0062	05/17/77	10	1789	1723N	07741E	53.7	80.9	GGGG		155	48
2846-04125	00000/0000	2-20044/0063	05/17/77	30	1789	1556N	07720E	53.2	78.9	GGGG		155	49
2846-04131	00000/0000	2-20044/0064	05/17/77	80	1789	1429N	07659E	52.7	77.1	GGGG		155	50
2846-04134	00000/0000	2-20044/0065	05/17/77	60	1789	1363N	07638E	52.1	75.3	GGGG		155	51
2846-04140	00000/0000	2-20044/0066	05/17/77	60	1789	1136N	07618E	51.5	73.5	FGGG		155	52
2846-05465	00000/0000	2-20044/0067	05/17/77	70	1790	4730N	06105E	52.1	127.3	GGGG		173	27
2846-05472	00000/0000	2-20044/0068	05/17/77	40	1790	4605N	06029E	52.7	125.2	FFFF		173	28
2846-05474	00000/0000	2-20044/0069	05/17/77	10	1790	4440N	05956E	53.2	123.1	PPPP		173	29
2846-05481	00000/0000	2-20044/0070	05/17/77	10	1790	4314N	05923E	53.7	120.9	PPPP		173	30
2846-05483	00000/0000	2-20044/0071	05/17/77	40	1790	4148N	05852E	54.1	118.7	GGGG		173	31
2846-05490	00000/0000	2-20044/0072	05/17/77	60	1790	4023N	05821E	54.5	116.5	GGGF		173	32
2846-05492	00000/0000	2-20044/0073	05/17/77	90	1790	3857N	05753E	54.9	114.3	FFFG		173	33
2846-05495	00000/0000	2-20044/0074	05/17/77	90	1790	3731N	05725E	55.2	112.0	GF3G		173	34
2846-05501	00000/0000	2-20044/0075	05/17/77	40	1790	3605N	05658E	55.4	109.7	GF3G		173	35
2846-05504	00000/0000	2-20044/0076	05/17/77	40	1790	3439N	05632E	55.6	107.4	FFFF		173	36
2846-05510	00000/0000	2-20044/0077	05/17/77	10	1790	3313N	05606E	55.8	105.1	FGGG		173	37
2846-05513	00000/0000	2-20044/0078	05/17/77	10	1790	3147N	05540E	55.8	102.7	GGGG		173	38
2846-05515	00000/0000	2-20044/0079	05/17/77	10	1790	3021N	05515E	55.9	100.4	FGFG		173	39
2846-14222	00000/0000	2-20043/0608	05/17/77	80	1795	5020N	06645W	50.9	131.3	GGGG		12	25
2846-14225	00000/0000	2-20043/0609	05/17/77	90	1795	4855N	06724W	51.6	129.3	GGGG		12	26
2846-14270	00000/0000	2-20043/0610	05/17/77	10	1795	3439N	07232W	55.7	107.2	GGGG		12	36
2846-14272	00000/0000	2-20043/0611	05/17/77	10	1795	3314N	07258W	55.8	104.9	GGGG		12	37
2846-14275	00000/0000	2-20043/0612	05/17/77	10	1795	3147N	07323W	55.9	102.6	GGGG		12	38
2846-14281	00000/0000	2-20043/0613	05/17/77	10	1795	3021N	07348W	55.9	100.3	GGGG		12	39
2846-14284	00000/0000	2-20043/0614	05/17/77	10	1795	2855N	07412W	55.9	98.0	GGGG		12	40
2846-14290	00000/0000	2-20043/0618	05/17/77	20	1795	2728N	07436W	55.8	95.7	GG	H	12	41
2846-14293	00000/0000	2-20043/0615	05/17/77	10	1795	2601N	07459W	55.6	93.4	GGGG	H	12	42
2846-14295	00000/0000	2-20043/0616	05/17/77	40	1795	2434N	07522W	55.5	91.2	GGGG	H	12	43
2846-14302	00000/0000	2-20043/0617	05/17/77	90	1795	2308N	07545W	55.2	89.0	GGGG	H	12	44
2846-21053	00000/0000	2-20044/0032	05/17/77	30	1799	8018N	11232W	28.2	207.1	GGGG		68	248
2846-21055	00000/0000	2-20044/0033	05/17/77	50	1799	7938N	12002W	29.3	199.2	GGGG		85	2
2846-21062	00000/0000	2-20044/0034	05/17/77	80	1799	7849N	12632W	30.4	192.4	GGGG		85	3
2846-21064	00000/0000	2-20044/0035	05/17/77	90	1799	7753N	13209W	31.5	186.4	GGGG		85	4
2846-21071	00000/0000	2-20044/0036	05/17/77	70	1799	7651N	13656W	32.6	181.2	GGGG		85	5
2846-21073	00000/0000	2-20044/0037	05/17/77	40	1799	7545N	14102W	33.7	176.7	GGGG		85	6

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANKS=BLANK NOT AVAILABLE. G=GOOD. P=POOR. F=FAIR.
 MSS DATA MODE (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN (BLANK)=LOW GAIN, H=HIGH GAIN

22:07 JUN 27, 77

LANDSAT-2
OBSERVATION ID LISTING
FOR NMN-US
FROM 05/01/77 TO 05/31/77

PAGE 0079

OBSERVATION ID	MICROFILM POSITION RBV	ROLL NO./ IN ROLL MSS	DATE ACQUIRED	CLOUD COVER	ORBIT NUMBER	PRINCIPAL POINT OF IMAGE LAT LONG	SUN ELEV.	SUN AZIM.	IMAGE-QUAL RBV MSS DATA 123 45678 MODE	MSS IMAGE GAIN	ORBIT PATH NUMBER	FRAME ROW NUMBER
2846-21080	00000/0000	2-20044/0038	05/17/77	40	1799	7436N 14433W	34.8	172.7	GGGF		85	7
2846-21082	00000/0000	2-20044/0039	05/17/77	80	1799	7324N 14736W	35.8	169.1	GGGF		85	8
2846-21085	00000/0000	2-20044/0040	05/17/77	60	1799	7209N 15015W	36.9	165.9	GGGF		84	9
2847-14280	00000/0000	2-20043/1509	05/18/77	10	1809	5020N 06811W	51.1	131.1	GGGG		13	25
2847-14283	00000/0000	2-20043/1510	05/18/77	0	1809	4855N 06849W	51.7	129.0	GGGG		13	26
2847-14335	00000/0000	2-20043/1511	05/18/77	10	1809	3021N 07514W	56.0	99.9	GGGG		13	39
2847-14342	00000/0000	2-20043/1512	05/18/77	10	1809	2854N 07538W	55.9	97.6	GGGG		13	40
2847-14344	00000/0000	2-20043/1516	05/18/77	30	1809	2728N 07602W	55.8	95.3	GF		13	41
2847-14351	00000/0000	2-20043/1513	05/18/77	20	1809	2602N 07625W	55.7	93.1	GGGG	H	13	42
2847-14357	00000/0000	2-20043/1514	05/18/77	30	1809	2435N 07648W	55.5	90.8	GGGG	H	13	43
2847-14360	00000/0000	2-20043/1515	05/18/77	30	1809	2309N 07711W	55.2	88.6	GGGG	H	13	44

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANKS=BAND NOT AVAILABLE. G=GOOD. P=POOR. F=FAIR.
 MSS DATA MODE..... (BLANK)=COMPRESSED, L=LINEAR
 MSS IMAGE GAIN..... (BLANK)=LOW GAIN, H=HIGH GAIN

0081

LANDSAT 2
COORDINATE LISTING

22107 JUN 27, 77

LANDSAT-2
COORDINATE LISTING
FOR NNN=US
FROM 05/01/77 TO 05/31/77

PAGE 0082

PRINCIPAL PT. OF IMAGE	LONG	LAT	OBSERVATION ID	CC %	QUALITY RBV MSS	ORBIT PATH NUMBER	FRAME ROW NUMBER	PRINCIPAL PT. OF IMAGE	LONG	LAT	OBSERVATION ID	CC %	QUALITY RBV MSS	ORBIT PATH NUMBER	FRAME ROW NUMBER
16908E	4431S	2824-21211	20	GGGG	80	91	12553E	4439N	2836-01242	20	GGGG	127	29		
16835E	4556S	2824-21214	30	FFGG	80	92	12547E	4023N	2835-01200	40	GGGG	126	32		
13940E	4311N	2826-00280	20	GGGG	117	30	12536E	4729N	2837-01291	10	GGGG	128	27		
13449E	4853N	2831-00544	30	FFGG	122	26	12524E	5018N	2838-01340	60	GGGG	129	25		
13413E	4728N	2831-00551	90	FFGG	122	27	12521E	4313N	2836-01245	10	GGGG	127	30		
13338E	4603N	2831-00553	100	FFGG	122	28	12518E	3857N	2835-01202	70	GGGG	126	33		
13304E	4437N	2831-00560	100	FFGG	122	29	12501E	4604N	2837-01294	0	GGGG	128	28		
13232E	4312N	2831-00562	100	FFGG	122	30	12450E	4148N	2836-01251	10	GGGG	127	31		
13212E	4606N	2832-01011	20	GGGG	123	28	12447E	4853N	2838-01343	40	GGGG	129	26		
13158E	4856N	2833-01060	80	GGGG	124	26	12427E	4439N	2837-01300	0	GGGG	128	29		
13122E	4731N	2833-01063	10	GGGG	124	27	12420E	4022N	2836-01254	10	GGGG	127	32		
13105E	4315N	2832-01020	60	GGGG	123	30	12410E	4728N	2838-01345	50	GGGG	129	27		
13047E	4606N	2833-01065	10	GGGG	124	28	12355E	4314N	2837-01303	0	GGGG	128	30		
13032E	4855N	2834-01115	100	GGGG	125	26	12351E	3856N	2836-01260	0	GGGG	127	33		
13013E	4441N	2833-01072	10	GGGG	124	29	12335E	4603N	2838-01352	40	GGGG	129	28		
12955E	4730N	2834-01121	70	GGGG	125	27	12323E	4147N	2837-01305	0	GGGG	128	31		
12944E	5019N	2835-01170	100	GGGG	126	25	12323E	3730N	2836-01263	0	GGGG	127	34		
12941E	4315N	2833-01074	10	GGGG	124	30	12320E	4858N	2839-01401	0	GGGG	130	26		
12920E	4605N	2834-01114	10	GGGG	125	28	12302E	4428N	2838-01354	10	GGGG	129	29		
12905E	4854N	2835-01173	90	GGGG	126	26	12254E	4022N	2837-01312	0	GGGG	128	32		
12857E	5143N	2836-01222	10	GGGG	127	24	12244E	4733N	2839-01403	10	GGGG	130	27		
12847E	4440N	2834-01130	30	GGGG	125	29	12232E	5022N	284-01453	50	GGGG	131	25		
12829E	4730N	2835-01175	90	GGGG	126	27	12230E	4313N	2838-01361	0	GGGG	129	30		
12817E	5019N	2836-01224	20	GGGG	127	25	12225E	3856N	2837-01314	10	GGGG	128	33		
12814E	4315N	2834-01133	40	GGGG	125	30	12209E	4607N	2839-01410	10	GGGG	130	28		
12754E	4605N	2835-01182	90	GGGG	126	28	12159E	4147N	2838-01363	0	GGGG	129	31		
12743E	4149N	2834-01135	40	GGGG	125	31	12157E	3731N	2837-01321	20	GGGG	128	34		
12718E	4854N	2836-01231	60	GGGG	127	26	12154E	4857N	2840-01455	10	GGGG	131	26		
12731E	5144N	2837-01280	10	GGGG	128	24	12137E	3147N	2836-01281	90	GGGG	127	38		
12720E	4439N	2835-01184	30	GGGG	126	29	12135E	4441N	2839-01412	0	GGGG	130	29		
12701E	4729N	2836-01233	60	GGGG	127	27	12130E	3605N	2837-01323	30	GGGG	128	35		
12551E	5020N	2837-01282	10	GGGG	128	25	12128E	4022N	2838-01370	0	GGGG	129	32		
12648E	4314N	2835-01191	30	GGGG	126	30	12118E	4732N	2840-01462	10	GGGG	131	27		
12626E	4605N	2836-01240	30	GGGG	127	28	12113E	3020N	2836-01283	90	GGGG	127	39		
12617E	4149N	2835-01193	30	GGGG	126	31	12107E	5022N	2841-01511	50	GGGG	132	25		
12613E	4855N	2837-01285	10	GGGG	128	26	12104E	3439N	2837-01330	70	GGGG	128	36		

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
IMAGE QUALITY BLANKS=BAD NOT AVAILABLE. G = GOOD. P = POOR. F = FAIR.

22:07 JUN 27, 77

LANDSAT-2
COORDINATE LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0083

PRINCIPAL PT. OF IMAGE	OBSERVATION ID	CC %	QUALITY RBV MSS	ORBIT PATH NUMBER	FRAME ROW NUMBER	PRINCIPAL PT. OF IMAGE	OBSERVATION ID	CC %	QUALITY RBV MSS	ORBIT PATH NUMBER	FRAME ROW NUMBER
LONG LAT			12345678			LONG LAT			12345678		
12103E 4316N	2839-01415	0	GGGG	130	30	11812E 4316N	2841-01531	10	GGGG	132	30
12059E 3856N	2838-01372	0	GGFG	129	33	11812E 3441N	2839-01442	80	GGGG	130	36
12049E 2855N	2836-01290	100	GGGG	127	40	11808E 3900N	2840-01485	30	GGGG	131	33
12043E 4607N	2840-01464	10	GGGG	131	28	11757E 2865N	2838-01402	100	GGGG	129	40
12038E 3312N	2837-01332	100	GGGG	128	37	11746E 3316N	2839-01444	100	GGGG	130	37
12032E 4151N	2839-01421	0	GGGG	130	31	11741E 4150N	2841-01534	30	GGGG	132	31
12031E 3731N	2838-01375	0	GGGG	129	34	11740E 3734N	2840-01491	70	GGGG	131	34
12028E 4857N	2841-01513	60	GGGG	132	26	11736E 4854N	2825-02035	10	GGGG	134	26
12026E 2728N	2836-01292	100	GGGG	127	41	11734E 4855N	2843-02025	10	FFFF	134	26
12012E 3146N	2837-01335	100	GGGG	128	38	11734E 2728N	2838-01404	90	GGGG	129	41
12010E 4442N	2840-01471	10	GGGG	131	29	11721E 3150N	2839-01451	100	GGGG	130	38
12004E 3605N	2838-01381	10	GGGF	129	35	11713E 3608N	2840-01494	80	GGGG	131	35
12002E 4025N	2839-01424	10	GGGG	130	32	11712E 1003S	2832-01173	20	GGGG	123	67
11952E 4732N	2841-01520	50	GGGG	132	27	11711E 4025N	2841-01540	30	GGGG	132	32
11948E 3020N	2837-01341	100	GGFG	128	39	11711E 2602N	2838-01411	70	GGFG	129	42
11939E 5017N	2824-01575	10	GGGG	133	25	11656E 3024N	2839-01453	90	GGGG	130	39
11938E 4316N	2840-01473	10	GGFG	131	30	11648E 2425N	2838-01413	70	GGGG	129	43
11938E 3438N	2838-01384	70	GGGG	129	36	11646E 4317N	2842-01585	20	GGGG	133	30
11933E 3859N	2839-01430	10	GGGF	130	33	11646E 3442N	2840-01500	80	FGGG	131	36
11923E 2854N	2837-01344	70	GGGG	128	40	11644E 4313N	2824-01595	0	GGGG	133	30
11917E 4607N	2841-01522	50	GGGG	132	28	11642E 3859N	2841-01543	10	GGGG	132	33
11912E 3312N	2838-01390	100	GGGG	129	37	11632E 2858N	2839-01460	90	GGFG	130	40
11907E 4151N	2840-01480	10	GGGF	131	31	11626E 2309N	2838-01420	50	GGGG	129	44
11906E 3734N	2839-01433	0	GGGG	130	34	11615E 4151N	2842-01592	70	GGGG	133	31
11904E 4858N	2842-01571	10	GGGG	133	26	11614E 3734N	2841-01545	0	GGGG	132	34
11901E 4853N	2824-01581	10	GGGG	133	26	11612E 4147N	2824-02002	10	GGFG	133	31
11900E 2727N	2837-01350	80	FGGG	128	41	11609E 2732N	2839-01462	90	GGGG	130	41
11846E 2146N	2838-01393	100	GGGG	129	38	11608E 4854N	2826-02093	10	GGGG	135	2
11844E 4441N	2841-01525	40	GGGG	132	29	11602E 5145N	2845-02133	70	GGGG	136	24
11839E 3607N	2839-01435	10	GGGG	130	35	11547E 3608N	2841-01552	10	GGGG	132	35
11837E 4025N	2840-01482	10	GGGG	131	32	11545E 4026N	2842-01594	80	GGGG	133	32
11837E 2601N	2837-01353	80	GGGG	128	42	11545E 2605N	2839-01465	90	GGGG	130	42
11822E 3020N	2838-01395	90	GGGG	129	39	11541E 4022N	2824-02004	10	GGGG	133	32
11814E 5019N	2825-02033	20	GGGG	134	25	11522E 5020N	2845-02135	20	GGGG	136	25
11814E 2435N	2837-01355	70	GGGG	128	43	11522E 2439N	2839-01471	90	GGGG	130	43
11813E 5020N	2843-02023	10	FGFG	134	25	11520E 3442N	2841-01554	30	GGGG	132	36

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
IMAGE QUALITY BLANKS, BAND NOT AVAILABLE, G = GOOD, P = POOR, F = FAIR.

22107 JUN 27, 77

LANDSAT-2
COORDINATE LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0084

PRINCIPAL PT. OF IMAGE	LAT	OBSERVATION ID	CC %	QUALITY RBV MSS	ORBIT PATH NUMBER	FRAME ROW NUMBER	PRINCIPAL PT. OF IMAGE	LAT	OBSERVATION ID	CC %	QUALITY RBV MSS	ORBIT PATH NUMBER	FRAME ROW NUMBER
11518E	4313N	2843-02043	0	GGGG	134	30	11259E	3147N	2824-02031	70	GGGG	133	38
11517E	4313N	2825-02053	60	GGGG	134	30	11254E	2605N	2841-01581	90	GGGG	132	42
11518E	3900N	2842-02001	90	GGGG	133	33	11253E	3606N	2825-02074	90	GGGG	134	35
11512E	3856N	2824-02011	30	GGGG	133	33	11252E	4023N	2826-02120	10	GGGG	135	32
11507E	2858N	2840-01514	90	GGGG	131	40	11252E	3604N	2843-02064	20	GGGG	134	35
11503E	1135N	2837-01394	50	GGGG	128	52	11235E	3021N	2824-02034	50	GGGG	133	39
11500E	2312N	2839-01474	60	GGGG	130	44	11231E	2439N	2841-01584	90	GGGG	132	43
11448E	3734N	2842-02003	100	GGGG	133	34	11226E	3439N	2825-02080	100	GGGG	134	36
11447E	4147N	2843-02050	0	FFGG	134	31	11226E	3439N	2843-02070	30	FFGG	134	36
11446E	4147N	2825-02060	40	GGGG	134	31	11211E	2855N	2824-02040	70	GGGG	133	40
11443E	3730N	2824-02013	70	GGGG	133	34	11201E	3313N	2843-02073	80	GGGG	134	37
11443E	2732N	2840-01521	100	GGGG	131	41	11200E	3313N	2825-02083	100	GGGG	134	37
11442E	1009N	2837-01400	40	GGGG	128	53	11157E	4149N	2827-02172	0	GGGG	136	31
11422E	0843N	2837-01403	40	GGGG	128	54	11156E	4149N	2845-02162	10	GGGG	136	31
11421E	3605N	2842-02010	100	GGGG	133	35	11154E	3721N	2826-02125	10	GGGG	135	34
11420E	2606N	2840-01523	100	GGGG	131	42	11152E	2732N	2842-02033	100	GGGG	133	41
11417E	4022N	2843-02052	0	FFGG	134	32	11147E	2729N	2824-02043	90	GGGG	133	41
11416E	4022N	2825-02062	30	GGGG	134	32	11136E	3147N	2843-02075	90	GGGG	134	38
11416E	3605N	2824-02020	90	FFGG	133	35	11135E	3147N	2825-02085	100	GGGG	134	38
11405E	3025N	2841-01570	70	GGG	132	39	11129E	2606N	2842-02035	80	GGGG	133	42
11402E	0716N	2837-01405	30	GGGG	128	55	11127E	3605N	2826-02132	10	GGGG	135	35
11359E	5021N	2846-02193	60	GGGG	137	25	11126E	4024N	2845-02165	10	GGGG	136	32
11357E	2439N	2840-01530	80	FFGG	131	43	11126E	4023N	2827-02174	0	GGG	136	32
11354E	3442N	2842-02012	100	GGGG	133	36	11124E	2603N	2824-02045	90	GGGG	133	42
11350E	3439N	2824-02022	30	GGGG	133	36	11112E	3021N	2843-02082	100	GGGG	134	39
11347E	3857N	2825-02065	80	GGGG	134	33	11110E	3021N	2825-02092	100	GGGG	134	39
11347E	3856N	2843-02055	10	FFFF	134	33	11106E	2439N	2842-02042	80	GGGG	133	43
11342E	0549N	2837-01412	30	GGGG	128	56	11102E	2436N	2824-02052	90	GGGG	133	43
11341E	2859N	2841-01572	60	GGGG	132	40	11100E	3439N	2826-02134	20	GGGG	135	36
11334E	2312N	2840-01532	60	FFGG	131	44	11057E	3858N	2845-02171	10	GGGG	136	33
11328E	3316N	2842-02015	100	GGGG	133	37	11056E	3857N	2827-02181	0	GGGG	136	33
11324E	3313N	2824-02025	40	GGGG	133	37	11048E	2855N	2843-02084	100	GGGG	134	40
11322E	4149N	2826-02114	20	GGGG	135	31	11046E	2855N	2825-02094	90	GGGG	134	40
11320E	3732N	2825-02071	90	GGGG	134	34	11039E	2309N	2824-02054	80	GGGG	133	44
11317E	2733N	2841-01575	90	GGGG	132	41	11035E	3313N	2826-02141	30	GGGG	135	37
11304E	3150N	2842-02021	100	GGGG	133	38	11030E	4149N	2846-02220	0	GGGG	137	21

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
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22:07 JUN 27, 77

LANDSAT-2
COORDINATE LISTING
FOR NNN-US
FROM 05/01/77 TO 05/31/77

PAGE 0085

PRINCIPAL PT. OF IMAGE	OBSERVATION ID	CC %	QUALITY RBV MSS	ORBIT PATH NUMBER	FRAME ROW NUMBER	PRINCIPAL PT. OF IMAGE	OBSERVATION ID	CC %	QUALITY RBV MSS	ORBIT PATH NUMBER	FRAME ROW NUMBER
LONG LAT			12345678			LONG LAT			12345678		
11029E 4148N	2828-02230	10	GGGG	137	31	10748E 2310N	2826-02170	70	GGGG	135	44
11028E 3732N	2827-02183	20	GGGG	136	34	10744E 3313N	2846-02243	100	GGGG	137	37
11028E 3732N	2845-02174	10	GGGG	136	34	10742E 3314N	2828-02253	100	GGGG	137	37
11024E 2729N	2843-02091	90	GGGG	134	41	10736E 3752N	2829-02300	100	FFFF	138	34
11022E 2729N	2825-02101	60	GGGG	134	41	10730E 2729N	2827-02213	90	GGGG	136	41
11017E 2143N	2824-02061	40	G	133	45	10718E 3147N	2846-02250	90	GGGG	137	38
11001E 3606N	2827-02190	70	GGGG	136	35	10717E 3148N	2828-02260	100	GGGG	137	38
11000E 4024N	2846-02223	10	GGGG	137	32	10709E 3606N	2829-02302	100	FFFF	138	35
10959E 4023N	2828-02233	10	GGGG	137	32	10708E 4024N	2830-02345	10	GGGG	139	32
10959E 2603N	2825-02103	60	GGGG	134	42	10708E 2603N	2827-02215	90	GGGG	136	42
10954E 2601N	2824-02063	10	GGGG	133	46	10652E 3022N	2828-02262	100	GGGG	137	39
10936E 2436N	2825-02110	60	GGGG	134	43	10645E 2437N	2827-02222	80	GGGG	136	43
10934E 3440N	2827-02192	60	GGGG	136	36	10642E 3440N	2829-02305	100	FFFF	138	36
10932E 3858N	2846-02225	10	GGGG	137	33	10639E 3858N	2830-02351	20	GGGG	139	39
10930E 3858N	2828-02235	40	GGGG	137	33	10628E 2856N	2828-02265	90	GGGG	137	40
10914E 2310N	2825-02112	20	GGGG	134	44	10616E 3314N	2829-02311	100	FFFF	138	37
10908E 3314N	2827-02195	80	GGGG	136	37	10611E 3733N	2830-02354	50	GGGG	139	34
10904E 3732N	2846-02232	10	GGGG	137	34	10604E 2729N	2828-02271	90	GGGG	137	41
10903E 4149N	2829-02284	100	GGGG	138	31	10544E 3607N	2830-02360	50	GGGG	139	35
10901E 3732N	2828-02242	70	GGGG	137	34	10542E 4023N	2831-02403	0	GF	140	32
10859E 2729N	2844-02145	90	GG G	135	41	10541E 2603N	2828-02274	70	GGGG	137	42
10856E 2728N	2826-02155	90	GGGG	135	41	10526E 3022N	2829-02320	90	FFFF	138	39
10852E 2144N	2825-02115	40	GGGG	134	45	10518E 2437N	2828-02280	60	GGGG	137	43
10842E 3147N	2827-02201	90	GGGG	136	38	10517E 3441N	2830-02363	60	GGGG	139	36
10838E 3606N	2846-02234	60	GGGG	137	35	10516E 5309N	2835-02593	40	GGGG	144	23
10836E 2603N	2844-02152	90	GGGG	135	42	10513E 3858N	2831-02405	10	GGGG	140	39
10834E 3606N	2828-02244	90	GGGG	137	35	10512E 0003N	2842-02112	40	GGGG	133	60
10834E 2602N	2826-02161	70	GGGG	135	42	10502E 2856N	2829-02323	100	FFFF	138	40
10833E 4023N	2829-02291	90	GGGG	138	32	10456E 2311N	2828-02283	60	GGGG	137	44
10818E 3021N	2827-02204	100	GGGG	136	39	10452E 0123S	2842-02115	40	GGGG	133	61
10813E 2437N	2844-02154	90	GGGG	135	43	10450E 3314N	2830-02365	70	GGGG	139	37
10811E 2436N	2826-02164	70	GGGG	135	43	10444E 3732N	2831-02412	70	GGGG	140	34
10810E 3440N	2846-02241	90	GGGG	137	36	10439E 2780N	2829-02325	50	GGGG	138	41
10808E 3440N	2828-02251	90	GGGG	137	36	10432E 0250S	2842-02121	40	GGGG	133	62
10804E 3858N	2829-02293	100	GGGG	138	33	10425E 3148N	2830-02372	80	GGGG	139	38
10754E 2855N	2827-02210	100	GGGG	136	40	10417E 3606N	2831-02414	90	GGGG	140	35

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
IMAGE QUALITY BLANKS=BAND NOT AVAILABLE. G = GOOD. P = POOR. F = FAIR.

22107 JUN 27, '77

LANDSAT-2
COORDINATE LISTING
FOR N9N-US
FROM 05/01/77 TO 05/31/77

PAGE 6 6

PRINCIPAL PT. OF IMAGE		OBSERVATION ID	CC %	QUALITY RBV MSS 12345678	ORBIT PATH NUMBER	FRAME ROW NUMBER	PRINCIPAL PT. OF IMAGE		OBSERVATION ID	CC %	QUALITY RBV MSS 12345678	ORBIT PATH NUMBER	FRAME ROW NUMBER
LONG	LAT						LONG	LAT					
10415E	2604N	2829-02332	10	GGGG	138	42	09941E	5559N	2840-03270	70	GGGG	149	21
10412E	0417S	2842-02124	40	GGGG	133	63	09928E	3435N	2816-03001	10	FGG	143	36
10400E	3022N	2830-02374	90	GGGG	139	39	09902E	3309N	2816-03004	30	FGG	143	37
10357E	5600N	2337-03100	10	GGGG	146	21	09857E	4143N	2818-03093	0	FGFF	148	31
10352E	2437N	2829-02334	10	FGGG	138	43	09853E	5435N	2840-03273	70	GGGG	149	22
10350E	5308N	2836-03051	60	FFFG	145	23	09837E	3143N	2816-03010	70	GGG	143	38
10350E	3440N	2831-02421	100	GGGG	140	36	09836E	4427N	2819-03142	0	G	146	29
10336E	2856N	2830-02381	90	GGGG	139	40	09827E	4018N	2818-03195	0	FGGP	145	32
10330E	2311N	2829-02341	40	GGGG	138	44	09816E	5559N	2841-03124	40	GGGG	150	21
10324E	3314N	2831-02423	90	FGGG	140	37	09812E	3017N	2816-03113	30	FGG	143	39
10313E	2730N	2830-02383	70	GGGG	139	41	09810E	2427N	2833-07563	40	GGGG	142	43
10309E	5435N	2837-03102	10	GGGG	146	22	09804E	4312N	2819-03144	0	GGGG	146	30
10259E	3148N	2831-02430	40	GGGG	140	38	09758E	3853N	2818-03102	0	FGGP	145	33
10250E	2604N	2830-02390	20	GGGG	139	42	09743E	4602N	2820-03193	10	FGFF	147	
10235E	3022N	2831-02432	50	GGGG	140	39	09738E	5723N	2842-03380	30	GGGG	151	20
10231E	5559N	2838-03154	10	GGGG	147	21	09733E	5718N	2824-03390	40	GGGG	151	20
10227E	2437N	2830-02392	10	GGGG	139	43	09733E	4147N	2819-03151	0	FGGG	146	31
10224E	5311N	2837-03105	10	FGGG	146	23	09730E	3727N	2818-03104	0	FFGP	145	34
10219E	3857N	2833-02522	0	GGGG	142	33	09710E	4427N	2820-03200	20	FFFF	147	29
10211E	2855N	2831-02435	60	GGGG	140	40	09703E	4021N	2819-03153	0	GGGG	146	32
10205E	2311N	2830-02395	40	GGGG	139	44	09703E	3601N	2818-03111	0	FGGF	145	35
10151E	3731N	2833-02524	10	GGGG	142	34	09647E	5559N	2842-03382	90	GGGF	151	21
10147E	2729N	2831-02441	30	GGGG	140	41	09643E	5555N	2824-03392	40	GGGG	151	21
10144E	5435N	2838-03160	60	GGGG	147	22	09637E	4312N	2820-03202	20	FGFF	147	30
10124E	3605N	2833-02531	10	GGGG	142	35	09637E	3425N	2818-03113	10	PGGF	145	38
10124E	2604N	2831-02444	30	GGGG	140	42	09634E	3855N	2819-03160	0	GGGG	146	33
10101E	2438N	2831-02450	50	GGGG	140	43	09616E	4601N	2821-03251	100	FFFF	148	28
10059E	5311N	2838-03163	70	GGGG	147	23	09611E	3308N	2818-03120	10	FGGF	145	37
10058E	3440N	2833-02533	10	GGGG	142	36	09606E	4146N	2820-03205	60	PGGF	147	31
10038E	2312N	2831-02453	30	GGGG	140	44	09606E	3730N	2819-03162	20	GGGG	146	34
10033E	3314N	2833-02540	10	GGGG	142	37	09600E	5435N	2842-03385	80	GGGF	151	22
10025E	0423N	2828-02335	30	GGGG	137	57	09556E	5431N	2824-03395	10	GGGG	151	22
10022E	3726N	2816-02592	0	F	143	34	09546E	3142N	2818-03122	70	GGGF	145	38
10005E	0257N	2820-02342	20	FGGG	137	58	09543E	4436N	2821-03254	100	GGGG	148	29
09955E	3600N	2816-02595	10	FFFF	143	35	09539E	3604N	2819-03165	30	GGGG	146	35
09945E	0130N	2828-02344	40	GGGG	137	59	09536E	4021N	2820-03211	50	FGFF	147	32

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
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22:07 JUN 27, 77

LANDSAT-2
COORDINATE LISTING
FOR NNN-JS
FROM 05/01/77 TO 05/31/77

PAGE 0087

PRINCIPAL PT. OF IMAGE	LONG	LAT	OBSERVATION ID	CC %	QUALITY RBV MSS 12345678	ORBIT PATH NUMBER	FRAME ROW NUMBER	PRINCIPAL PT. OF IMAGE	LONG	LAT	OBSERVATION ID	CC %	QUALITY RBV MSS 12345678	ORBIT PATH NUMBER	FRAME ROW NUMBER
09521E	3017N	2818-03125	80	GGGG	145	39	09223E	5308N	2844-03504	80	GGGG	153	23		
09515E	5311N	2842-03351	80	GGFG	151	23	09223E	2437N	2819-03201	30	FGGG	146	43		
09513E	2438N	2819-03171	10	GGGG	146	36	09222E	5017N	2825-03464	10	GGGG	152	25		
09511E	4311N	2821-03260	90	GGFG	148	30	09221E	1846N	2818-03161	70	GGGF	145	47		
09508E	3855N	2820-03214	30	FFFG	147	33	09219E	3438N	2821-03283	30	GGFG	148	36		
09453E	2850N	2818-03131	80	GGGG	145	40	09206E	2855N	2820-03243	50	GGGF	147	40		
09447E	3312N	2819-03174	10	GGGG	146	37	09200E	2310N	2819-03203	20	FGGG	146	44		
09445E	5720N	2844-03492	80	GGGG	153	20	09159E	4603N	2824-03422	0	GGGG	151	28		
09439E	3730N	2820-03220	30	FGFG	147	34	09153E	3312N	2821-03290	10	FGGG	148	37		
09435E	2724N	2818-03134	80	PPFF	145	41	09152E	5719N	2828-04014	30	GGGG	155	20		
09433E	5146N	2842-03394	30	GGGG	151	24	09147E	4854N	2843-03461	30	GGGF	152	26		
09428E	3147N	2819-03180	40	GGGG	146	38	09144E	4852N	2825-03471	10	PPFF	152	26		
09412E	3604N	2820-03223	50	FFFG	147	35	09143E	5424N	2845-03555	90	FGGG	154	22		
09412E	2559N	2818-03140	70	PPFF	145	42	09142E	2728N	2820-03250	80	FFFF	147	41		
09410E	4020N	2821-03265	90	FFFF	148	32	09141E	2146N	2837-03200	70	GGGG	146	45		
09357E	3020N	2819-03183	50	GGGG	146	39	09138E	2143N	2819-03210	10	FGGG	146	45		
09355E	5556N	2844-03495	70	GGGG	153	21	09128E	3146N	2821-03292	30	GGGG	148	38		
09350E	2433N	2818-03143	20	PPFP	145	43	09126E	4438N	2824-03424	0	GGGG	151	29		
09345E	3438N	2820-03225	100	FGFG	147	36	09119E	2602N	2820-03252	60	FGFG	147	42		
09333E	2855N	2819-03185	60	GGGG	146	40	09117E	2016N	2819-03212	20	GGGG	146	46		
09327E	2307N	2818-03145	20	PPFP	145	44	09110E	4729N	2843-03464	10	GGGF	152	27		
09321E	5721N	2845-03550	90	GGGG	154	20	09108E	4727N	2825-03473	10	GGFG	152	27		
09320E	3312N	2820-03232	90	FGGF	147	37	09103E	3020N	2821-03295	40	FFFF	148	39		
09313E	3729N	2821-03274	70	PPPP	148	34	09102E	5556N	2828-04021	30	GGGG	155	21		
09311E	4853N	2824-03413	0	GGG	151	26	09057E	5309N	2845-03562	90	FGGG	154	23		
09309E	2729N	2819-03192	60	GGGG	146	41	09057E	2436N	2820-03255	50	FGGG	147	43		
09308E	5432N	2844-03501	90	GGGG	153	22	09055E	4313N	2824-03431	20	GGG	151	30		
09305E	2140N	2818-03152	20	PPFP	145	45	09039E	2854N	2821-03301	70	GGFF	148	40		
09255E	3147N	2820-03234	80	FGFG	147	38	09035E	4604N	2843-03470	0	FGFF	152	28		
09246E	3604N	2821-03281	10	GGFF	148	35	09034E	2309N	2820-03261	40	FGGG	147	44		
09246E	2603N	2819-03194	30	FFGG	146	42	09034E	1723N	2819-03221	30	GGGG	146	48		
09243E	2013N	2818-03154	50	PPFP	145	46	09032E	4602N	2825-03480	0	GGGG	152	28		
09235E	4729N	2824-03415	0	GGGG	151	27	09024E	4147N	2824-03433	70	PPFP	151	31		
09230E	5557N	2845-03553	80	GGGG	154	21	09018E	4854N	2826-03525	80	GGGG	153	26		
09230E	3021N	2820-03241	60	GGGG	147	39	09015E	2728N	2821-03304	40	PPPP	148	41		
09220E	5018N	2843-03455	40	FFGG	152	25	09014E	5432N	2828-04023	10	GGGG	155	22		

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
IMAGE QUALITY BLANKS=BAD NOT AVAILABLE. G = GOOD. P = POOR. F = FAIR.

22:07 JUN 27, 177

LANDSAT-2
COORDINATE LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0088

PRINCIPAL PT. OF IMAGE		OBSERVATION ID	CC %	QUALITY RBV MSS 12345678	ORBIT PATH NUMBER	FRAME ROW NUMBER	PRINCIPAL PT. OF IMAGE		OBSERVATION ID	CC %	QUALITY RBV MSS 12345678	ORBIT PATH NUMBER	FRAME ROW NUMBER
LONG	LAT						LONG	LAT					
09014E	5145N	2845-03564	20	G	154	24	08808E	5557N	2830-04133	10	GGGG	157	21
09012E	2143N	2820-03264	30	PGGF	147	45	08806E	5019N	2828-04035	0	FGGG	155	25
09010E	5143N	2827-03574	60	GGGG	154	24	08803E	4314N	2844-03533	60	GGGG	153	30
09002E	4438N	2843-03473	10	FGGF	152	29	08803E	3489N	2824-03454	30	GGGG	151	36
09000E	4437N	2825-03482	0	GGGG	152	29	08803E	1849N	2821-03331	10	PPPP	148	47
08954E	4021N	2824-03440	40	GGGG	151	32	08802E	4313N	2826-03543	20	FGGF	153	30
08952E	5844N	2830-04124	0	GGGG	157	19	08758E	3857N	2843-03491	90	FGGF	152	33
08952E	2601N	2821-03310	80	PPPP	148	42	08757E	3856N	2825-03500	10	GGGG	152	33
08951E	2016N	2820-03270	30	FFFF	147	46	08744E	4604N	2845-03582	0	GGGG	154	28
08942E	4729N	2826-03531	50	FGGG	153	27	08742E	1722N	2821-03333	10	PPPP	148	48
08934E	5020N	2845-03571	0	GGGG	154	25	08741E	4603N	2827-03592	80	GGGG	154	28
08930E	5019N	2827-03581	60	GGGG	154	25	08737E	3314N	2824-03460	30	GGGG	151	37
08929E	5308N	2828-04030	0	GGGG	155	23	08730E	4148N	2826-03545	30	FGGF	153	31
08929E	4313N	2843-03475	10	FGGF	152	30	08729E	3730N	2825-03503	40	FGGG	152	34
08929E	2435N	2821-03313	90	PPGP	148	43	08728E	4855N	2828-04041	0	FFFF	155	26
08929E	1849N	2820-03273	40	FGGF	147	47	08728E	4855N	2846-04031	10	PPPP	155	26
08927E	4312N	2825-03485	0	GGGG	152	30	08721E	1555N	2821-03340	20	PPPP	148	49
08908E	2309N	2821-03315	30	PPPP	148	44	08720E	5433N	2830-04135	20	GGGG	157	22
08908E	1723N	2820-03275	20	FFFF	147	48	08719E	5144N	2829-04090	40	GGFF	156	24
08907E	4603N	2826-03534	70	FGGG	153	28	08712E	3148N	2824-03463	30	GGGG	151	38
08858E	5720N	2830-04130	0	GGGG	157	20	08710E	4439N	2845-03585	10	GGG	154	29
08858E	4148N	2843-03482	10	GGG	152	31	08708E	4438N	2827-03595	70	FFFF	154	29
08856E	4147N	2825-03491	0	GGGG	152	31	08704E	3605N	2843-03500	50	GGGG	152	35
08856E	3730N	2824-03445	40	GGG	151	34	08702E	3604N	2825-03505	40	FGGG	152	35
08855E	1355N	2845-03573	0	GGGG	154	26	08701E	4022N	2826-03552	100	FGFF	153	32
08852E	4854N	2827-03583	40	GGGG	154	26	08700E	1429N	2821-03342	10	PPPP	148	50
08847E	5143N	2828-04032	0	FFGG	155	24	08652E	4730N	2846-04034	10	FFFF	155	27
08847E	2143N	2821-03322	20	PPPP	148	45	08651E	4730N	2828-04044	10	FFFF	155	27
08846E	1557N	2820-03282	20	FFFF	147	49	08647E	3022N	2824-03465	10	GGGG	151	39
08836E	4439N	2844-03531	30	GGGG	153	29	08638E	5019N	2829-04093	30	GGGG	156	25
08834E	4438N	2826-03540	60	FGFF	153	29	08637E	4314N	2845-03591	70	GGGG	154	30
08827E	4022N	2843-03484	90	FGGG	152	32	08637E	3429N	2843-03502	40	GGGG	152	36
08826E	4022N	2825-03494	0	FFFF	152	32	08636E	4313N	2827-04001	80	GGGG	154	30
08825E	2016N	2821-03324	20	PPPP	148	46	08635E	3438N	2825-03512	70	FGGG	152	36
08819E	4730N	2845-03580	0	GGGG	154	27	08632E	3856N	2826-03554	100	FGFF	153	33
08815E	4729N	2827-03590	70	GGGG	154	27	08631E	5301N	2812-04152	70	GGGG	157	23

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
IMAGE QUALITY BLANKS=BAD NOT AVAILABLE. G = GOOD. P = POOR. F = FAIR.

22:07 JUN 27, 177

LANDSAT-2
COORDINATE LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0089

PRINCIPAL PT. OF IMAGE		OBSERVATION ID	CC %	QUALITY RBV MSS 12345678	ORBIT PATH NUMBER	FRAME ROW NUMBER	PRINCIPAL PT. OF IMAGE		OBSERVATION ID	CC %	QUALITY RBV MSS 12345678	ORBIT PATH NUMBER	FRAME ROW NUMBER
LONG	LAT						LONG	LAT					
08623E	2855N	2824-03472	10	FGGG	151	40	08440E	4149N	2828-04062	50	FFFF	155	31
08617E	4605N	2846-04040	10	PFPP	155	28	08440E	4149N	2846-04052	40	GGGF	155	31
08618E	4604N	2828-04050	30	FFFF	155	28	08439E	3732N	2845-04005	40	GGGG	154	34
08612E	3313N	2843-03505	20	GGGG	152	37	08438E	3731N	2827-04015	90	QFGG	154	34
08609E	3312N	2825-03514	30	GGFG	152	37	08434E	2728N	2843-03523	10	FGGF	152	41
08608E	4148N	2845-03594	40	GGGG	154	31	08432E	2728N	2825-03532	10	FFFF	152	41
08605E	4147N	2827-04004	80	GGGG	154	31	08430E	4847N	2812-04163	0	GGGG	157	26
08600E	4854N	2829-04095	10	GGGG	156	26	08428E	5144N	2831-04202	90	GGGG	158	24
08558E	2728N	2824-03474	20	GGGG	151	41	08427E	2103N	2824-03492	10	GGGG	151	45
08555E	5433N	2831-04193	90	GFG	158	22	08425E	5138N	2813-04212	30	GGGG	158	24
08549E	5138N	2812-04154	10	GGGG	157	24	08419E	3147N	2826-03575	30	GGGG	153	38
08548E	3146N	2843-03511	10	GGGG	152	38	08416E	4439N	2829-04111	0	GPP	156	29
08544E	4440N	2846-04043	60	PFPP	155	29	08412E	3606N	2845-04012	60	GGGG	154	35
08544E	3146N	2825-03521	10	FGGG	152	38	08412E	2601N	2843-03525	0	FGGF	152	42
08543E	4439N	2828-04053	20	FFFF	155	29	08411E	3605N	2827-04022	80	GGGG	154	35
08537E	4022N	2845-04000	20	GGGG	154	32	08410E	4023N	2828-04064	30	FFF	155	32
08537E	3605N	2826-03563	60	PFPP	153	35	08410E	4023N	2846-04054	10	GGGF	155	32
08535E	4022N	2827-04010	90	GGGG	154	32	08408E	2603N	2825-03535	10	GGGF	152	42
08535E	2602N	2824-03481	50	GGGG	151	42	08406E	2017N	2824-03495	10	FGGG	151	46
08524E	4729N	2829-04102	10	GGGG	156	27	08354E	4722N	2812-04170	0	GGGG	157	27
08521E	3020N	2843-03514	10	GGGG	152	39	08349E	2435N	2843-03532	0	GGGF	152	43
08520E	3020N	2825-03523	10	GGGG	152	39	08348E	5020N	2831-04205	90	GGGG	158	25
08512E	2436N	2824-03483	20	PFPP	151	43	08345E	5013N	2813-04215	10	GGGG	158	25
08511E	5309N	2831-04200	90	GG	158	23	08345E	3440N	2845-04014	60	GGGG	154	36
08511E	4314N	2828-04055	50	FFFF	155	30	08345E	2437N	2825-03541	10	FGGF	152	43
08511E	4314N	2846-04045	30	FGGF	155	30	08344E	4314N	2829-04113	30	GGGG	156	30
08510E	3439N	2826-03570	30	FGGG	153	36	08344E	3439N	2827-04024	90	GGGG	154	36
08508E	5013N	2812-04161	10	GGGG	157	25	08344E	1850N	2824-03501	10	PGGG	151	47
08508E	3858N	2845-04003	40	GGGG	154	33	08341E	5302N	2814-04264	0	FFFF	159	23
08507E	5302N	2813-04210	10	GGGG	158	23	08341E	3857N	2846-04061	10	FGGG	155	39
08506E	3857N	2827-04013	90	FGGG	154	33	08340E	3857N	2828-04071	40	GGF	155	33
08458E	2854N	2843-03520	10	GGGG	152	40	08327E	2308N	2843-03534	0	FGGF	152	44
08458E	2854N	2825-03530	0	GGGG	152	40	08322E	2309N	2825-03544	0	FGGG	152	44
08456E	2310N	2824-03490	30	GGGG	151	44	08319E	4558N	2812-04172	0	GGGG	157	28
08449E	4604N	2829-04104	0	FGGG	156	28	08319E	3314N	2845-04021	50	GGGG	154	37
08444E	3313N	2826-03572	30	GGGG	153	37	08318E	3313N	2827-04031	80	GGGG	154	37

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
IMAGE QUALITY BLANKS=BAD NOT AVAILABLE. G = GOOD. P = POOR. F = FAIR.

22107 JUN 27, 1977

LANDSAT-2
COORDINATE LISTING
FOR NANAUS
FROM 05/01/77 TO 05/31/77

PAGE 0000

PRINCIPAL PT. OF IMAGE	OBSERVATION ID	CC %	QUALITY RBV MSS	ORBIT PATH NUMBER	FRAME ROW NUMBER	PRINCIPAL PT. OF IMAGE	OBSERVATION ID	CC %	QUALITY RBV MSS	ORBIT PATH NUMBER	FRAME ROW NUMBER
08314E 5720N	2834-04355	90	GGGG	161	20	08203E 2855N	2827-04042	40	GGGG	154	40
08313E 4149N	2829-04120	30	GGGG	156	31	08159E 1722N	2843-03552	10	FFGF	152	48
08313E 3732N	2846-04063	0	FFGG	155	34	08158E 4605N	2831-04220	30	GGGG	158	28
08312E 3731N	2828-04073	80	FFGF	155	34	08158E 2310N	2826-04002	20	FFGG	153	44
08309E 4855N	2831-04211	90	GGGG	158	26	08157E 1724N	2825-03562	40	GGGG	152	48
08306E 4849N	2813-04221	10	GGGG	158	26	08155E 4559N	2813-04230	0	GGGF	158	28
08305E 2142N	2843-03541	0	FFGG	152	45	08153E 3314N	2846-04075	10	GGGG	155	37
08303E 5432N	2833-04310	30	GGGG	160	22	08152E 3313N	2828-04085	60	FFGG	155	37
08300E 2142N	2825-03550	10	FFGF	152	45	08146E 3731N	2829-04131	10	FFGG	156	34
08259E 5425N	2815-04320	0	GGGF	160	22	08143E 4143N	2812-04184	10	GGGG	157	31
08258E 5138N	2814-04270	10	FFFF	159	24	08143E 2729N	2845-04035	10	GGGG	154	41
08254E 3147N	2845-04023	50	GGGG	154	38	08140E 2729N	2827-04045	0	GGGG	154	41
08253E 3148N	2827-04033	70	GGGG	154	38	08139E 4848N	2814-04275	0	FFFF	159	26
08246E 4433N	2812-04175	10	GGGG	157	29	08138E 1555N	2843-03555	10	FFFF	152	49
08246E 3606N	2846-04070	10	FFFG	155	35	08137E 5143N	2833-04315	70	GGGG	160	24
08244E 3605N	2828-04080	90	FFGG	155	35	08136E 5432N	2834-04364	90	GGGG	161	22
08243E 2603N	2826-03593	0	GGGG	153	42	08136E 2144N	2826-04004	20	GGGG	153	45
08243E 2015N	2843-03543	0	FFGF	152	46	08135E 1556N	2825-03564	70	GGGG	152	49
08242E 1429N	2824-03513	40	GGGG	151	50	08131E 5127N	2815-04325	0	PPPP	160	24
08239E 2016N	2825-03553	20	GGFG	152	46	08128E 3148N	2846-04081	30	GGGG	155	38
08233E 4730N	2831-04214	50	GGGG	158	27	08127E 3147N	2828-04091	60	FFGG	155	38
08230E 4724N	2813-04224	10	GGGG	158	27	08125E 4429N	2831-04223	10	GGGG	158	29
08230E 3021N	2845-04030	80	GGGG	154	39	08121E 4433N	2813-04233	10	FFGF	158	29
08228E 3021N	2827-04040	70	GGGG	154	39	08119E 3605N	2829-04134	10	FFGG	156	35
08223E 5556N	2834-04361	90	GGGG	161	21	08119E 2602N	2845-04041	10	GGGG	154	42
08221E 2436N	2826-03595	10	GGGG	153	43	08117E 2602N	2827-04051	0	GGGG	154	42
08221E 1849N	2843-03550	10	FFGF	152	47	08117E 1428N	2843-03561	10	FFFF	157	50
08221E 1302N	2824-03515	90	GGGP	151	51	08115E 1429N	2825-03571	80	GGGF	152	50
08219E 5308N	2833-04312	30	GGGG	160	23	08114E 2017N	2826-04011	30	GGGG	153	46
08218E 3440N	2828-04082	70	FFGG	155	36	08113E 4018N	2812-04190	0	GGGG	157	32
08218E 1850N	2825-03555	20	GGGG	152	47	08103E 3022N	2846-04084	10	FFFF	155	39
08217E 5013N	2814-04273	10	FFFF	159	25	08102E 4723N	2814-04282	0	FFFF	159	27
08214E 5301N	2815-04322	0	PPFF	160	23	08102E 3021N	2828-04094	70	GGGG	155	39
08214E 3857N	2829-04125	40	GGGG	156	33	08057E 5019N	2833-04321	20	GGGG	160	25
08213E 4308N	2812-04181	10	GGGG	157	30	08057E 2436N	2845-04044	10	GGGG	154	43
08206E 2855N	2845-04032	70	GGGG	154	40	08056E 1301N	2843-03564	10	FFFF	152	51

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANKS=BAND NOT AVAILABLE. G = GOOD. P = POOR. F = FAIR.

22:07 JUN 27, '77

LANDSAT-2
COORDINATE LISTING
FOR NNN-05
FROM 05/01/77 TO 05/31/77

PAGE 0091

PRINCIPAL PT. OF IMAGE	LONG	LAT	OBSERVATION ID	CC %	QUALITY RBV MSS	ORBIT PATH NUMBER	FRAME ROW NUMBER	PRINCIPAL PT. OF IMAGE	LONG	LAT	OBSERVATION ID	CC %	QUALITY RBV MSS	ORBIT PATH NUMBER	FRAME ROW NUMBER
08055E	2436N	2827-04054	10	GGGG	154	43	07949E	1430N	2826-04025	10	FFGP	153	50		
08055E	1302N	2825-03573	80	GGGG	152	51	07948E	4018N	2813-04244	30	GGGF	158	32		
08053E	4314N	2831-04225	0	FGGG	158	30	07948E	2017N	2827-04065	10	FGGG	154	46		
08053E	1850N	2826-04013	10	GFGG	153	47	07942E	4729N	2833-04330	10	GGGG	160	27		
08052E	3439N	2829-04140	20	GFGG	156	36	07937E	4723N	2815-04340	0	PFGG	160	27		
08051E	5308N	2834-04370	70	GGGG	161	23	07936E	3021N	2829-04152	30	GGGG	156	39		
08051E	5012N	2815-04331	0	PPGF	160	25	07935E	5559N	2836-04473	90	GGGG	163	21		
08049E	4308N	2813-04235	20	GGGG	158	30	07929E	5018N	2834-04375	20	GGGG	161	25		
08048E	5301N	2816-04380	10	PPF	161	23	07929E	2436N	2828-04112	0	FFGF	155	43		
08044E	3852N	2812-04193	10	FFFF	157	33	07929E	2436N	2846-04102	10	GGGG	155	43		
08038E	2855N	2828-04100	90	GGGG	155	40	07929E	1848N	2845-04062	10	GGGG	154	47		
08035E	2309N	2845-04050	10	GGGG	154	44	07928E	1303N	2826-04031	20	FGGG	153	51		
08033E	2310N	2827-04060	10	FGGG	154	44	07927E	5308N	2835-04424	100	GGGG	162	23		
08031E	1723N	2826-04020	10	GGGG	153	48	07927E	1850N	2827-04072	10	FFGF	154	47		
08027E	4558N	2814-04284	0	PPGF	159	28	07926E	5014N	2816-04385	10	PPF	161	25		
08026E	3313N	2829-04143	40	GGGG	156	37	07923E	3857N	2831-04241	0	GGGG	158	33		
08025E	5722N	2836-04471	80	GGGG	163	20	07923E	3435N	2812-04204	0	GGGG	157	36		
08021E	4149N	2831-04232	0	PPFF	158	31	07922E	4308N	2814-04293	10	PPGF	159	30		
08018E	4854N	2833-04324	30	GGGG	160	26	07919E	3852N	2813-04251	50	GGGG	158	33		
08018E	4143N	2813-04242	20	GGGG	158	31	07912E	2855N	2829-04154	10	GGGG	156	40		
08016E	3726N	2812-04195	10	GGGG	157	34	07908E	1136N	2826-04034	30	GGGG	153	52		
08015E	2729N	2828-04103	70	GGGG	155	41	07907E	4603N	2833-04333	10	GGGG	160	28		
08013E	5432N	2835-04422	90	FGFG	162	22	07907E	2310N	2828-04114	20	FFGF	155	44		
08013E	4847N	2815-04334	0	PPFG	160	26	07907E	2309N	2846-04104	0	PPFF	155	44		
08012E	2142N	2845-04053	10	GGGG	154	45	07907E	1722N	2845-04064	30	GGGG	154	48		
08010E	2144N	2827-04063	10	GGGG	154	45	07905E	1723N	2827-04074	10	GGGG	154	48		
08010E	1557N	2826-04022	10	GGGG	153	49	07903E	4559N	2815-04343	0	FGGF	160	28		
08009E	5143N	2834-04373	30	GGGG	161	24	07857E	3309N	2812-04211	0	GGGG	157	37		
08006E	5138N	2816-04383	10	PPF	161	24	07855E	3731N	2831-04243	10	GGGG	158	34		
08000E	3147N	2829-04145	30	GGFF	156	38	07851E	4854N	2834-04382	30	GGGG	161	26		
07954E	4433N	2814-04291	10	PPFF	159	29	07851E	4143N	2814-04300	20	PPFF	159	31		
07952E	4023N	2831-04234	0	PPFF	158	32	07851E	3726N	2813-04253	60	GGGG	158	34		
07952E	2603N	2828-04105	10	GGGG	155	42	07848E	4848N	2816-04392	0	PPF	161	26		
07952E	2602N	2846-04095	10	GGGG	155	42	07848E	2729N	2829-04161	30	GGGF	156	41		
07950E	2015N	2845-04055	10	GGGG	154	46	07847E	5435N	2836-04480	80	GGGG	163	22		
07949E	3600N	2812-04202	10	GGGG	157	35	07845E	5143N	2835-04431	100	GGGG	162	24		

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
IMAGE QUALITY BLANKS=BAD NOT AVAILABLE. G = GOOD. P = POOR. F = FAIR.

22:07 JUN 27, 77

LANDSAT-2
COORDINATE LISTING
FOR NNN-US
FROM 05/01/77 TO 05/31/77

PAGE 0092

PRINCIPAL PT. OF IMAGE	LONG	LAT	OBSERVATION ID	CC %	QUALITY RBV MSS 12345678	ORBIT PATH NUMBER	FRAME ROW NUMBER	PRINCIPAL PT. OF IMAGE	LONG	LAT	OBSERVATION ID	CC %	QUALITY RBV MSS 12345678	ORBIT PATH NUMBER	FRAME ROW NUMBER
07845E	2144N	2828-04121	40	G G F F	155	45	07740E	2311N	2829-04172	0	F G G G	156	44		
07845E	2141N	2846-04111	10	F G G G	155	45	07740E	1724N	2828-04132	20	F G G G	155	48		
07845E	1555N	2845-04071	70	G G G G	154	49	07739E	4603N	2834-04391	10	G G G	161	28		
07844E	1556N	2827-04081	10	G G G F	154	49	07736E	4558N	2816-04401	10	G G P	161	28		
07842E	5429N	2818-04490	70	F G F G	163	22	07735E	3314N	2831-04255	20	G G G G	158	37		
07833E	4439N	2833-04335	0	G G G G	160	29	07734E	5722N	2838-04583	10	G G G G	165	20		
07833E	3143N	2812-04213	0	G G G G	157	38	07732E	3309N	2813-04265	50	G G G G	158	37		
07830E	4434N	2815-04345	0	F G G F	160	29	07730E	4148N	2833-04344	10	G G G G	160	31		
07828E	3606N	2831-04250	30	G	158	35	07727E	4142N	2815-04354	10	F G G P	160	31		
07825E	2603N	2829-04163	10	F G G G	156	42	07726E	4853N	2835-04440	70	G G F G	162	26		
07825E	1429N	2845-04073	70	G G G G	154	50	07724E	3726N	2814-04311	50	F F F F	159	34		
07823E	3601N	2813-04260	40	G G G G	158	35	07721E	5434N	2837-04534	90	G G G G	164	22		
07823E	2017N	2828-04123	20	G G G F	155	46	07720E	2725N	2812-04225	0	G G G G	157	41		
07823E	2015N	2846-04113	0	G G G F	155	46	07720E	1556N	2846-04125	30	G G G G	155	49		
07823E	1430N	2827-04083	10	F G G G	154	50	07719E	1557N	2828-04135	0	F G G F	155	49		
07821E	4017N	2814-04302	30	F F F F	159	32	07718E	5146N	2836-04485	70	G G G G	163	24		
07814E	4729N	2834-04384	20	G G G G	161	27	07718E	2144N	2829-04175	10	G F G G	156	45		
07811E	4723N	2816-04394	0	F F F	161	27	07716E	5429N	2819-04544	30	G G G G	164	22		
07808E	3017N	2812-04220	0	G G G G	157	39	07715E	5140N	2818-04495	50	P G F F	163	24		
07804E	5018N	2835-04433	90	F F F G	162	25	07710E	3147N	2831-04261	20	G G G G	158	38		
07804E	1302N	2845-04080	30	G G G G	154	51	07707E	3143N	2813-04271	90	G G G G	158	38		
07803E	2437N	2829-04170	10	F G G G	156	43	07706E	4438N	2834-04393	50	G G G F	161	29		
07803E	1303N	2827-04090	20	G G G G	154	51	07703E	4433N	2816-04403	30	F F P	161	29		
07802E	1851N	2828-04130	10	F F G F	155	47	07700E	4022N	2833-04351	50	G G G G	160	32		
07802E	1848N	2846-04120	0	G G G F	155	47	07659E	1429N	2846-04131	80	G G G G	155	50		
07801E	5310N	2836-04482	70	G G G G	163	23	07658E	1431N	2828-04141	10	G G G F	155	50		
07801E	4313N	2833-04342	0	G G G G	160	30	07657E	3600N	2814-04314	50	G G F G	159	35		
07801E	3440N	2831-04252	10	G G G	158	36	07657E	2559N	2812-04231	0	G G G G	157	42		
07758E	4308N	2815-04352	10	P G G P	160	30	07656E	4017N	2815-04361	10	G G G F	160	32		
07757E	5305N	2818-04492	70	F G F G	163	23	07656E	2017N	2829-04181	10	F G G G	156	46		
07757E	2435N	2813-04262	40	G G G G	158	36	07646E	3022N	2831-04264	10	G G G G	158	39		
07752E	3851N	2814-04305	40	F F F F	159	33	07643E	5558N	2838-04590	10	G G G G	165	21		
07744E	2851N	2812-04222	0	G G G G	157	40	07643E	3017N	2813-04274	60	G G G G	158	39		
07744E	1135N	2845-04082	60	F F F F	154	52	07638E	5021N	2836-04491	60	G G G G	163	25		
07742E	1136N	2827-04092	30	G G G G	154	52	07638E	1303N	2846-04134	60	G G G G	155	51		
07741E	1723N	2846-04122	10	G G G G	155	48	07637E	5310N	2837-04540	60	G G G G	164	23		

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
IMAGE QUALITY BLANKS=BAD NOT AVAILABLE. G = GOOD. P = POOR. F = FAIR.

22:07 JUN 27, 1977

LANDSAT-2
COORDINATE LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0093

PRINCIPAL PT. OF IMAGE		OBSERVATION ID	CC %	QUALITY RBV MSS	ORBIT PATH NUMBER	FRAME ROW NUMBER	PRINCIPAL PT. OF IMAGE		OBSERVATION ID	CC %	QUALITY RBV MSS	ORBIT PATH NUMBER	FRAME ROW NUMBER
LONG	LAT			12345678			LONG	LAT			12345678		
07637E	1304N	2828-04144	10	FGGF	155	51	07524E	4731N	2836-04500	10	GGGG	163	27
07634E	5015N	2818-04501	20	PPFG	163	25	07515E	5559N	2839-05044	0	GGG	166	21
07634E	4313N	2834-04400	70	GGGG	161	30	07515E	3017N	2814-04332	20	FFFF	159	39
07634E	2433N	2812-04234	0	GGGG	157	43	07514E	5021N	2837-04545	20	GGGG	164	25
07634E	1851N	2829-04184	10	GFGF	156	47	07511E	5016N	2819-04555	70	GGGG	164	25
07633E	5305N	2819-04550	40	GGGG	164	23	07511E	2437N	2831-04282	10	GGGG	158	43
07631E	4308N	2816-04410	10	FFP	161	30	07510E	5310N	2838-04595	50	GGGG	165	23
07631E	3434N	2814-04320	30	FGGF	159	36	07510E	2484N	2813-04292	10	GGGG	158	43
07630E	3857N	2833-04353	40	GGGF	160	33	07510E	1303N	2829-04202	30	BFGF	156	31
07628E	3852N	2815-04363	10	GGGP	160	33	07508E	4313N	2835-04454	90	GFFG	162	30
07621E	2856N	2831-04270	0	GGGG	158	40	07507E	1848N	2812-04252	0	GGGF	157	47
07619E	2851N	2813-04280	50	GGGG	158	40	07506E	3434N	2815-04375	10	GGGF	160	36
07618E	1136N	2846-04140	60	FGGG	155	52	07504E	5305N	2820-05004	0	FFFF	165	23
07616E	1137N	2828-04150	30	FGGF	155	52	07502E	3851N	2816-04421	10	GGP	161	39
07613E	1724N	2829-04190	10	GGGF	156	48	07451E	2851N	2814-04334	10	FGGF	159	40
07612E	2307N	2812-04240	10	GGGG	157	44	07450E	1126N	2829-04204	20	GGGG	156	52
07605E	3308N	2814-04323	30	FGGF	159	37	07449E	4606N	2836-04503	0	GGGG	163	28
07602E	3731N	2833-04360	60	GGGF	160	34	07448E	2310N	2831-04284	20	GGGG	158	44
07600E	4856N	2836-04494	50	GGGG	163	26	07447E	2307N	2813-04294	0	GGGG	158	44
07600E	4143N	2816-04412	10	FFP	161	31	07445E	1721N	2812-04254	0	FGGF	157	48
07559E	3726N	2815-04370	10	GGGG	160	34	07441E	5722N	2840-05095	10	GGGG	167	20
07557E	2730N	2831-04273	0	GGGG	158	41	07440E	3308N	2815-04381	50	FGGF	160	37
07556E	5434N	2838-04592	10	GGGG	165	22	07436E	4856N	2837-04552	10	GGGG	164	26
07556E	2725N	2813-04283	20	FGGG	158	41	07434E	3726N	2816-04424	10	GGF	161	34
07554E	5146N	2837-04543	60	GGGG	164	24	07433E	4851N	2819-04562	30	FGGG	164	26
07551E	5141N	2819-04553	90	PPPF	164	24	07428E	5145N	2838-05001	70	GGGG	165	24
07551E	1557N	2829-04193	10	GFGF	156	49	07428E	2725N	2814-04341	10	FGGF	159	41
07550E	5429N	2820-05002	0	FFFF	165	22	07427E	5434N	2839-05050	0	FFFF	166	22
07550E	2141N	2812-04243	10	GGGG	157	45	07426E	2144N	2831-04291	30	FFF	158	45
07540E	3142N	2814-04325	30	FPGF	159	38	07425E	2141N	2813-04301	10	FPGF	158	45
07534E	2603N	2831-04275	0	GGGG	158	42	07424E	1555N	2812-04261	10	GGGG	157	49
07532E	7600N	2815-04372	10	GGGG	160	35	07422E	5140N	2820-05011	0	FFFF	165	24
07532E	2600N	2813-04285	20	GGGG	158	42	07415E	4441N	2836-04505	10	GGGG	163	29
07531E	4017N	2816-04415	10	GGP	161	32	07415E	3143N	2815-04384	20	FGGG	160	38
07530E	1430N	2829-04195	10	GGGG	156	50	07411E	4436N	2818-04515	0	FPGF	163	29
07529E	2015N	2812-04245	10	GGGG	157	46	07406E	3600N	2816-04430	20	GGF	161	35

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
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22:07 JUN 27, 1977

LANDSAT-2
COORDINATE LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0094

PRINCIPAL PT. OF IMAGE	OBSERVATION ID	CC %	QUALITY RBV MSS 12345678	ORBIT PATH NUMBER	FRAME ROW NUMBER	PRINCIPAL PT. OF IMAGE	OBSERVATION ID	CC %	QUALITY RBV MSS 12345678	ORBIT PATH NUMBER	FRAME ROW NUMBER
LONG LAT						LONG LAT					
07404E 2017N	2831-04293	10	F G G G	158	46	07228E 4726N	2820-05022	0	F G G G	165	27
07403E 2015N	2813-04303	10	G G G G	158	46	07224E 5559N	2841-05160	30	G G G G	168	21
07403E 1428N	2812-04263	10	G G G G	157	50	07220E 5021N	2839-05062	10	G G G G	166	25
07359E 4731N	2837-04554	0	G G G G	164	27	07218E 5310N	2840-05111	10	G G G G	167	23
07356E 4727N	2819-04564	10	F G G G	164	27	07218E 4316N	2837-04570	10	G	164	30
07351E 5558N	2840-05102	10	G G G G	167	21	07217E 2432N	2815-04404	10	F G G F	160	43
07350E 3017N	2815-04390	0	F G G F	160	39	07217E 0543S	2828-04200	30	G G G F	155	64
07348E 5020N	2838-05004	20	F G G G	165	25	07216E 5305N	2822-05121	0	R P P	167	23
07343E 4315N	2836-04512	20	G G G G	163	30	07214E 4311N	2819-04580	10	G G G G	164	30
07343E 1851N	2831-04300	10	G G G G	158	47	07214E 1846N	2814-04364	20	F G G F	159	47
07342E 5310N	2839-05053	0	G G G G	166	23	07210E 3855N	2818-04533	10	G G G F	163	38
07342E 5015N	2820-05013	0	F F F F	165	25	07158E 4605N	2838-05015	0	G G G G	165	28
07341E 1848N	2813-04310	10	G G G G	158	47	07157E 0711S	2828-04203	40	G G G G	155	68
07340E 3+34N	2816-04433	70	G G G	161	36	07154E 4601N	2820-05025	0	F G G G	165	28
07339E 3110N	2818-04522	30	P P G F	163	30	07154E 2306N	2815-04411	10	F G G F	160	44
07326E 2851N	2815-04393	0	F G G F	160	40	07150E 5723N	2842-05211	10	F F G F	169	20
07324E 4606N	2837-04561	0	G G G G	164	28	07147E 4150N	2837-04572	20	F G G G	164	31
07322E 1724N	2831-04302	20	G F G F	158	48	07143E 5718N	2824-05221	90	G G G G	169	20
07321E 4602N	2819-04571	0	G G G G	164	28	07143E 4146N	2819-04582	20	G G G G	164	31
07321E 1721N	2813-04312	10	G G G G	158	48	07142E 4856N	2839-05064	10	G G G G	166	26
07319E 2305N	2814-04352	0	F F G F	159	44	07142E 3729N	2818-04540	0	F F F F	163	34
07309E 4856N	2838-05010	10	G G G G	165	26	07141E 4852N	2821-05074	0	P P F P	166	26
07309E 4146N	2818-04524	60	F P G F	163	31	07137E 5435N	2841-05162	20	G G G G	168	22
07304E 4851N	2820-05020	10	F F G F	165	26	07136E 2725N	2816-04453	10	G G P	161	41
07303E 5434N	2840-05104	10	G G G G	167	22	07135E 5145N	2840-05113	10	G G G G	167	24
07303E 2725N	2815-04395	0	F G G F	160	41	07134E 5141N	2822-05123	0	P P G G	167	24
07301E 5430N	2822-05114	10	F G G	167	22	07132E 2140N	2815-04413	10	P F G G	160	45
07300E 5146N	2839-05055	10	G G G G	166	24	07125E 4440N	2838-05022	10	G G G G	165	29
07257E 2139N	2814-04355	10	P F F F	159	45	07117E 4025N	2837-04575	30	G G G G	164	32
07250E 4441N	2837-04563	0	G G G G	164	29	07112E 4020N	2819-04585	10	G G G G	164	32
07247E 4436N	2819-04573	10	G G G G	164	29	07110E 2014N	2815-04420	20	P F G P	160	46
07240E 2558N	2815-04402	0	F G G F	160	42	07110E 0416S	2829-04252	30	G G G	156	63
07239E 4020N	2818-04531	20	F F G F	163	32	07105E 4731N	2839-05071	10	G G G G	166	27
07237E 0417S	2828-04194	40	G G G F	155	63	07103E 4726N	2821-05081	10	P P F P	166	27
07235E 2013N	2814-04361	20	P F F F	159	46	07100E 5559N	2842-05214	10	F F G F	169	21
07233E 4730N	2838-05013	0	G G G G	165	27	07055E 5020N	2840-05120	10	G G G G	167	25

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
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22:07 JUN 27, 77

LANDSAT-2
COORDINATE LISTING
FOR NAN-05
FROM 05/01/77 TO 05/31/77

PAGE 0095

PRINCIPAL PT. OF IMAGE	OBSEVATION ID	CC %	QUALITY REV MSS	ORBIT PATH	FRAME ROW NUMBER	PRINCIPAL PT. OF IMAGE	OBSEVATION ID	CC %	QUALITY REV MSS	ORBIT PATH	FRAME ROW NUMBER
LONG LAT			12345678	NUMBER		LONG LAT			12345678	NUMBER	
07054E 5017N	2822-05130	0	PFGG	167	25	06921E 5306N	2824-05233	0	FGGG	169	23
07052E 5554N	2824-05224	30	GGGG	169	21	06917E 3854N	2820-05045	40	FGGG	165	33
07052E 5310N	2841-05165	20	GGGG	168	23	06908E 2854N	2818-04563	10	FFFF	163	40
07052E 4315N	2838-05024	20	GGGG	165	30	06905E 4603N	2822-05141	20	FGGG	167	28
07051E 2432N	2816-04462	10	GGP	161	43	06858E 5724N	2844-05324	10	GGGG	171	20
07050E 0543S	2829-04254	30	GGGG	156	64	06857E 3311N	2819-05005	0	GGGG	164	37
07049E 1847N	2815-04422	10	FGGP	160	47	06854E 4150N	2839-05085	40	GGGG	166	31
07043E 3855N	2819-04591	10	GGGG	164	33	06853E 3733N	2838-05042	10	FGGG	165	34
07031E 4605N	2839-05073	10	GGGG	166	28	06851E 4856N	2841-05180	30	GGGG	168	26
07031E 0710S	2829-04261	30	GGGG	156	65	06851E 4146N	2821-05095	90	PPFG	166	31
07028E 4601N	2821-05083	60	PPFF	166	28	06849E 3729N	2820-05052	80	FGGG	165	34
07028E 2306N	2816-04465	10	GGF	161	44	06845E 2728N	2818-04565	0	FFFF	163	41
07021E 4149N	2838-05031	30	GGGG	165	31	06839E 5141N	2824-05235	0	PPPF	169	24
07017E 4856N	2840-05122	10	GGGG	167	26	06831E 4439N	2822-05144	40	PPFF	167	29
07017E 4146N	2820-05040	20	FFGF	165	31	06831E 3145N	2819-05012	0	GGGF	164	38
07016E 4852N	2822-05132	0	PGGG	167	26	06824E 4024N	2839-05091	10	GGGG	166	32
07015E 3729N	2819-04594	10	GGGG	164	34	06822E 3603N	2820-05054	30	FGGF	165	35
07012E 5434N	2842-05220	70	GGGF	169	22	06822E 2601N	2818-04572	0	PPPP	163	42
07010E 5145N	2841-05171	20	GGGG	168	24	06814E 4731N	2841-05183	20	GGGG	168	27
07006E 2139N	2816-04471	10	PPFG	161	45	06807E 5600N	2844-05330	10	GGGG	171	21
07005E 5430N	2824-05230	0	PPPF	169	22	06807E 3019N	2819-05014	0	PPFP	164	39
06957E 4440N	2839-05080	30	GGGG	166	29	06759E 5016N	2824-05242	0	GGGG	169	25
06957E 3146N	2818-04554	10	FGGF	163	38	06759E 4315N	2840-05140	10	GGGG	167	30
06955E 4436N	2821-05090	90	PPFF	166	29	06759E 4314N	2821-05150	30	GGGG	167	30
06951E 4023N	2838-05033	10	GGGG	165	32	06759E 2434N	2818-04574	0	PPFF	163	43
06948E 3603N	2819-05000	10	GGGG	164	35	06756E 3437N	2820-05061	0	GGGG	165	38
06946E 4020N	2820-05043	20	FGGF	165	32	06755E 3859N	2839-05094	20	GGGG	166	33
06944E 2013N	2816-04474	10	PPGP	161	46	06743E 2853N	2819-05081	0	GGGG	164	40
06940E 4727N	2822-05135	0	PGGG	167	27	06739E 4606N	2841-05185	10	GGGG	168	28
06932E 3020N	2818-04560	10	FFGP	163	39	06737E 2308N	2818-04581	10	PPFP	163	44
06929E 5021N	2841-05174	10	GGGG	168	25	06730E 3311N	2820-05063	0	GGGG	165	37
06927E 5310N	2842-05223	40	FFFF	169	23	06728E 4150N	2840-05143	10	GGGG	167	31
06925E 4315N	2839-05082	60	GGGG	166	30	06727E 4148N	2822-05153	20	GGGG	167	31
06923E 4311N	2821-05092	90	FFFF	166	30	06726E 3733N	2839-05100	10	GGGG	166	34
06922E 3858N	2838-05040	20	FGGG	165	33	06720E 4851N	2824-05244	0	GGGG	169	26
06922E 3437N	2819-05003	0	GGGG	164	36	06719E 5435N	2844-05333	10	GGGG	171	22

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
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22:07 JUN 27, 1977

LANDSAT-2
COORDINATE LISTING
FOR NNN-US
FROM 05/01/77 TO 05/31/77

PAGE 0096

PRINCIPAL PT. OF IMAGE	LONG	LAT	OBSERVATION ID	CC %	QUALITY RBV MSS	ORBIT PATH NUMBER	FRAME ROW NUMBER	PRINCIPAL PT. OF IMAGE	LONG	LAT	OBSERVATION ID	CC %	QUALITY RBV MSS	ORBIT PATH NUMBER	FRAME ROW NUMBER
06719E	2727N	2819-05023	0	GGGG	164	41	06507E	5308N	2845-05393	0	GGGG	172	23		
06715E	2141N	2818-04583	30	PPPF	163	45	06507E	5307N	2827-05403	0	FGFG	172	23		
06705E	4441N	2841-05192	10	GGGG	168	29	06504E	3438N	2822-05173	30	GGGG	167	36		
06705E	3146N	2820-05070	10	FGGG	165	38	06503E	4312N	2824-05262	30	GGGG	169	30		
06658E	4024N	2840-05145	20	GGGG	167	32	06503E	3858N	2841-05210	50	GGGG	168	33		
06656E	4021N	2822-05155	30	GGGG	167	32	06451E	2854N	2821-05133	10	FF	166	40		
06656E	3603N	2821-05113	50	FFFF	166	35	06447E	4607N	2843-05302	10	FGGG	170	28		
06655E	2600N	2819-05030	0	GGGG	164	42	06445E	2309N	2820-05093	10	FFFF	165	44		
06653E	2015N	2818-04590	20	PPFP	163	46	06439E	3312N	2822-05180	100	FFFF	167	37		
06640E	3020N	2820-05072	10	FGGF	165	39	06438E	5720N	2829-05504	40	GGGG	174	20		
06639E	5556N	2845-05384	0	GGGG	172	21	06436E	4150N	2842-05255	0	FGGF	169	31		
06634E	5311N	2844-05235	50	GGGG	171	23	06432E	4147N	2824-05265	50	GGGG	169	31		
06633E	4315N	2841-05194	10	GGGG	168	30	06428E	2728N	2821-05140	10	FG	166	41		
06632E	2434N	2819-05032	0	PPFP	164	43	06425E	5144N	2845-05400	10	GGGG	172	24		
06630E	3437N	2821-05115	10	FGGG	166	36	06425E	5143N	2827-05410	0	FGGG	172	24		
06629E	3858N	2840-05152	10	GGGG	167	33	06424E	5431N	2828-05455	10	PPPP	173	22		
06626E	3855N	2822-05162	30	GGGG	167	33	06423E	2142N	2820-05095	30	FFFF	165	45		
06616E	2855N	2820-05075	0	GGGF	165	40	06413E	4441N	2843-05304	10	GGGG	170	29		
06610E	2307N	2819-05035	10	PPFF	164	44	06413E	3146N	2822-05182	100	GGGG	167	38		
06609E	4603N	2824-05253	0	GGGG	169	28	06406E	4024N	2842-05261	10	GGFF	169	32		
06604E	3311N	2821-05122	10	PPFP	166	37	06405E	5843N	2830-05555	70	GGGG	175	19		
06602E	4150N	2841-05201	20	GGGG	168	31	06405E	2602N	2821-05142	0	PPPP	166	42		
06559E	4857N	2843-05293	10	GGGG	170	26	06403E	4021N	2824-05271	50	GGGG	169	32		
06558E	3729N	2822-05164	10	GGGG	167	34	06349E	3020N	2822-05185	60	GGGG	167	39		
06553E	2728N	2820-05081	0	FFFF	165	41	06347E	5556N	2829-05510	40	GGGG	174	21		
06552E	5432N	2827-05401	0	FGFF	172	22	06345E	5019N	2845-05402	0	GGGG	172	25		
06551E	5432N	2845-05391	0	GGGG	172	22	06344E	5018N	2827-05412	0	FGGG	172	25		
06548E	2141N	2819-05041	10	PPFF	164	45	06341E	4316N	2843-05311	10	FGGG	170	30		
06540E	4441N	2842-05250	0	GGGG	169	29	06334E	3855N	2824-05274	60	FGGG	169	33		
06539E	3146N	2821-05124	20	FGGF	166	38	06325E	2853N	2822-05191	50	GGGG	167	40		
06535E	4437N	2824-05260	0	PPP	169	29	06311E	5720N	2830-05562	70	GGGG	175	20		
06532E	4024N	2841-05203	40	GGGG	168	32	06310E	4151N	2843-05313	10	FGGG	170	31		
06531E	3604N	2822-05171	10	GGGG	167	35	06306E	4854N	2845-05405	10	GGGG	172	26		
06527E	2015N	2819-05044	10	FFFF	164	46	06306E	4853N	2827-05415	0	GGGG	172	26		
06523E	4732N	2843-05295	10	GGGG	170	27	06306E	3730N	2824-05280	80	FGGG	169	34		
06508E	4316N	2842-05252	0	FGGF	169	30	06302E	2727N	2822-05194	30	GGGF	167	41		

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
IMAGE QUALITY BLANKS=BAND NOT AVAILABLE. G = GOOD. P = POOR. F = FAIR.

22:07 JUN 27, 1977

LANDSAT-2
COORDINATE LISTING
FOR NNN-05
FROM 05/01/77 TO 05/31/77

PAGE 0097

PRINCIPAL PT. SF IMAGE	OBSERVATION ID	CC %	QUALITY RBV MSS	SRBIT PATH	FRAME R94	PRINCIPAL PT. SF IMAGE	OBSERVATION ID	CC %	QUALITY RBV MSS	SRBIT PATH	FRAME R94
			12345678	NUMBER	NUMBER				12345678	NUMBER	NUMBER
06259E	5432N	2829-05513	10	FGGG	174	06029E	4605N	2846-05472	40	FFFF	173
06257E	5142N	2828-05464	10	FFFF	173	06022E	3316N	2843-05340	0	FGGG	170
06257E	2142N	2821-05154	10	PPPP	166	06018E	3733N	2844-05383	10	GGGG	171
06240E	4025N	2843-05320	0	FGGF	170	06017E	4148N	2845-05425	40	FGGF	172
06239E	3604N	2824-05283	80	FGGG	169	06017E	4147N	2827-05435	10	GGGG	172
06239E	2601N	2822-05200	0	GGGF	167	06013E	4854N	2829-05531	0	FGGG	174
06238E	5843N	2831-06014	90	GGGG	174	06008E	2728N	2824-05310	10	GGGG	169
06229E	4730N	2845-05411	20	GGGG	172	06006E	5432N	2831-06025	30	FGGF	176
06229E	4728N	2127-05421	0	GGGG	172	06002E	5137N	2812-05590	30	FFFF	175
06221E	5556N	2830-05564	20	GGGG	175	06000E	5426N	2813-06035	20	GGGG	176
06217E	2434N	2822-05203	0	FGGF	167	05957E	3149N	2843-05343	0	GGGF	170
06216E	5018N	2825-05470	0	FFFF	173	05956E	4440N	2846-05474	10	PPPP	173
06214E	5308N	2829-05515	0	FGGG	174	05947E	4022N	2827-05442	10	FGGG	172
06213E	3438N	2824-05285	70	GGGG	169	05947E	4022N	2845-05432	20	FFFF	172
06211E	3859N	2843-05322	0	GGGG	170	05945E	2601N	2824-05312	10	FGGG	169
06154E	4603N	2845-05414	20	FFFF	172	05936E	4729N	2829-05533	0	GGGG	174
06154E	4603N	2827-05424	10	GGGG	172	05933E	3022N	2843-05345	0	FGGF	170
06154E	2308N	2822-05205	0	PPPP	167	05923E	4314N	2846-05481	10	FFFF	173
06148E	3312N	2824-05292	70	FGGG	169	05923E	2435N	2824-05315	10	PPPP	169
06144E	5720N	2831-06020	90	GGGG	176	05922E	5012N	2812-05592	10	GGGG	175
06143E	3733N	2843-05325	0	GGGG	170	05921E	5307N	2831-06032	60	GGGG	176
06138E	4853N	2828-05473	0	FFFF	173	05921E	4313N	2828-05491	0	FFFF	173
06132E	5144N	2829-05522	0	GGGG	174	05919E	3856N	2845-05434	0	FGGG	172
06129E	5425N	2812-05581	90	GGGG	175	05918E	3856N	2827-05444	10	GGGG	172
06120E	4439N	2845-05420	20	FFFF	172	05916E	5302N	2813-06041	70	GGGG	176
06120E	4438N	2827-05430	10	FGGG	172	05908E	2856N	2843-05352	0	FFFF	170
06115E	3608N	2843-05331	0	FGGF	170	05902E	4604N	2829-05540	0	GGGF	174
06105E	4730N	2845-05465	70	GGGG	173	05852E	4148N	2846-05483	40	GGGG	173
06057E	3020N	2824-05301	70	FGGG	169	05851E	3730N	2845-05441	10	FGGF	172
06053E	5556N	2831-06023	90	GGGG	176	05850E	4147N	2828-05493	10	FFFF	173
06051E	5019N	2829-05524	0	GGG	174	05850E	3730N	2827-05451	10	GGGG	172
06049E	4313N	2827-05433	20	GGGF	172	05845E	2729N	2843-05354	0	FGGF	170
06048E	4313N	2845-05423	30	FGGG	172	05844E	4848N	2812-05595	0	FGGF	175
06048E	3442N	2843-05334	0	GGGG	170	05839E	5143N	2831-06034	20	GGGG	176
06044E	5300N	2812-05583	70	GGGG	175	05834E	5137N	2813-06044	100	GGGG	176
06033E	2853N	2824-05303	40	GGGG	169	05828E	4438N	2829-05542	0	GGGF	174

KEYS: CLOUD COVER % 0 TO 100 % CLOUD COVER.
IMAGE QUALITY BLANKS-BAND NOT AVAILABLE. G = GOOD, P = POOR, F = FAIR.

22107 JUN 27, 1977

LANDSAT-2
COORDINATE LISTING
FOR NNN-JS
FROM 05/01/77 TO 05/31/77

PAGE 0098

PRINCIPAL PT. OF IMAGE	OBSERVATION ID	CC %	QUALITY RBV MSS	ORBIT PATH NUMBER	FRAME ROW NUMBER	PRINCIPAL PT. OF IMAGE	OBSERVATION ID	CC %	QUALITY RBV MSS	ORBIT PATH NUMBER	FRAME ROW NUMBER
LONG LAT			12345678			LONG LAT			12345678		
05820E 3604N	2845-05443	30	FFFF	172	35	05640E 3021N	2827-05471	10	GGGG	172	39
05823E 3604N	2827-05453	10	GGGG	172	35	05637E 5556N	2834-06193	20	GGGG	179	21
05822E 5842N	2834-06184	60	GGGG	179	19	05632E 3439N	2846-05504	40	FFFF	173	36
05822E 2603N	2843-05361	0	FFFF	170	42	05630E 5012N	2814-06105	90	GGGG	177	25
05821E 4023N	2846-05490	60	GGGG	173	32	05630E 3439N	2828-05514	10	GGGG	173	36
05816E 0418S	2838-05163	10	GGGG	165	63	05630E 0545S	2839-05223	30	GGGG	166	64
05808E 4723N	2812-06001	0	GGGG	175	27	05629E 5307N	2833-06144	60	GGGG	178	23
05801E 5555N	2833-06135	90	GGGG	174	21	05627E 4308N	2812-06013	10	GGGG	175	30
05759E 5019N	2831-06041	10	GGGG	174	25	05627E 3857N	2829-05560	0	GGGG	174	33
05757E 3439N	2845-05450	40	GGGG	172	36	05624E 5300N	2815-06154	30	GGGG	178	23
05757E 3438N	2827-05460	10	GGGG	172	36	05617E 2854N	2845-05464	10	GGGG	172	40
05756E 4313N	2829-05545	10	GGGG	174	30	05616E 2854N	2827-05474	10	GGGG	172	40
05756E 0545S	2838-05165	20	GGGG	165	64	05610E 0712S	2839-05230	30	GGGG	166	65
05755E 5012N	2813-06050	90	GGGG	174	25	05606E 3313N	2816-05510	10	GGGG	173	37
05753E 3857N	2846-05492	90	GGGG	173	33	05605E 4558N	2813-06062	40	GGGG	176	28
05752E 5301N	2814-06100	100	GGGG	177	23	05604E 3313N	2828-05420	20	GGGG	173	37
05736E 0711S	2838-05172	20	GGGG	165	65	05559E 3731N	2829-05563	10	GGGG	174	34
05734E 4559N	2812-06004	0	GGGG	175	28	05555E 4142N	2812-06015	10	GGGG	175	31
05730E 3313N	2827-05462	10	GGGG	172	37	05553E 2728N	2827-05480	10	G	172	41
05730E 3313N	2845-05452	10	GGGG	172	37	05553E 2727N	2845-05470	0	GGGG	172	41
05728E 5719N	2834-06190	50	GGGG	179	20	05551E 4847N	2814-06111	60	FFFF	177	26
05725E 4147N	2829-05551	20	GGGG	174	31	05549E 5431N	2834-06195	10	GGGG	179	22
05725E 3731N	2846-05495	90	GGGG	173	34	05546E 5143N	2833-06150	50	GGGG	178	24
05720E 4854N	2831-06043	0	GGGG	176	26	05542E 5136N	2815-06160	30	GGGG	178	24
05717E 4847N	2813-06053	100	GGGG	176	26	05540E 3147N	2846-05513	10	GGGG	173	38
05714E 5432N	2833-06141	70	GGGG	178	22	05538E 3147N	2828-05523	40	GGGG	173	38
05705E 3147N	2827-05465	10	GGGG	172	38	05531E 4434N	2813-06064	20	GGGG	176	29
05705E 3147N	2845-05455	10	GGGG	172	38	05531E 3605N	2829-05565	10	GGGG	174	35
05700E 4434N	2812-06010	10	GGGG	175	29	05530E 2602N	2827-05483	10	GGGG	172	42
05658E 3605N	2846-05501	40	GGGG	173	35	05530E 2601N	2845-05473	0	GGGG	172	42
05656E 4022N	2829-05554	0	GGGG	174	32	05525E 4017N	2812-06022	60	GGGG	175	32
05656E 3605N	2828-05511	10	GGGG	172	35	05515E 4723N	2814-06114	70	GGGG	177	27
05650E 0417S	2837-05221	40	GGGG	164	63	05515E 3021N	2846-05515	10	GGGG	173	39
05644E 4729N	2831-06050	10	GGGG	176	27	05514E 3021N	2828-05525	40	FFFF	173	39
05641E 3020N	2845-05461	10	GGGG	172	39	05511E 5558N	2835-06251	60	GGGG	180	21
05640E 4722N	2813-06055	90	GGGG	176	27	05506E 5018N	2833-06153	30	GGGG	178	25

KEYS: CLOUD COVER & 0 TO 100 = % CLOUD COVER.
IMAGE QUALITY BLANKS=BAD NOT AVAILABLE. G = GOOD. P = POOR. F = FAIR.

22:07 JUN 27, 1977

LANDSAT-2
COORDINATE LISTING
FOR NNN-JS
FROM 05/01/77 TO 05/31/77

PAGE 0099

PRINCIPAL PT. OF IMAGE	LAT	LONG	OBSERVATION ID	CC %	QUALITY RBV MSS	ORBIT PATH NUMBER	FRAME ROW NUMBER	PRINCIPAL PT. OF IMAGE	LAT	LONG	OBSERVATION ID	CC %	QUALITY RBV MSS	ORBIT PATH NUMBER	FRAME ROW NUMBER
05504E	3439N	2829-05572	10	GGGG	174	33	05250E	0261S	2824-05394	40	GGGG	169	62		
05503E	5307N	2834-06202	10	GGGG	179	23	05247E	3148N	2830-06035	10	GGGG	175	38		
05502E	5012N	2815-06163	50	GGGG	178	25	05240E	4432N	2815-06181	50	PPFP	178	29		
05459E	4308N	2813-06071	20	GGGG	176	30	05230E	0418S	2824-05401	40	GGGG	169	63		
05456E	3852N	2812-06024	90	GGGG	175	33	05222E	3022N	2830-06041	20	GGGG	175	39		
05450E	2855N	2828-05532	90	GGGG	173	40	05221E	4722N	2816-06230	20	FFFP	179	27		
05440E	4558N	2814-06120	100	GGGG	177	28	05219E	5558N	2837-06363	90	GGGG	182	21		
05438E	3313N	2829-05574	20	GGGG	174	37	05215E	5021N	2835-06265	10	GGGG	180	25		
05431E	4147N	2831-06064	0	FFFF	176	31	05214E	5309N	2836-06314	10	GGGG	181	23		
05428E	4853N	2833-06155	10	GGGG	178	26	05210E	0545S	2824-05403	50	GGGG	169	64		
05428E	4142N	2813-06073	60	GGGG	176	31	05208E	4307N	2815-06183	40	GGGG	178	30		
05428E	3726N	2812-06031	60	GGGG	175	34	05151E	0712S	2824-05410	50	GGGG	169	65		
05427E	2729N	2828-05534	90	GGGG	173	41	05137E	4856N	2835-06271	0	GGGG	180	26		
05424E	4848N	2815-06165	70	GGGG	178	26	05136E	4142N	2815-06190	10	FFFF	178	31		
05423E	5434N	2835-06253	40	GGGG	180	22	05131E	5434N	2837-06370	50	GGGG	182	22		
05421E	5143N	2834-06204	10	GGGG	179	24	05131E	5145N	2836-06320	0	GGGG	181	24		
05413E	3147N	2829-05581	20	GGGG	174	38	05131E	0839S	2824-05412	40	GGGG	169	66		
05406E	4433N	2814-06123	90	FFFF	177	29	05109E	4021N	2833-06182	0	GGGG	178	32		
05404E	2603N	2828-05541	10	GGGG	173	42	05051E	5021N	2836-06323	0	GG F	181	25		
05401E	3600N	2812-06033	10	GGGG	175	30	05046E	5014N	2818-06333	0	PPFP	181	25		
05349E	3021N	2829-05583	30	GGGG	174	35	05043E	6008N	2840-06522	60	GGGG	185	18		
05348E	4723N	2815-06172	50	PPFP	178	27	05040E	3856N	2833-06185	10	FFGF	178	33		
05346E	5557N	2836-06305	60	GGGG	181	21	05013E	4856N	2836-06325	0	GG G	181	26		
05341E	5018N	2834-06211	0	GGGG	179	25	05008E	4850N	2818-06335	40	PPFG	181	26		
05339E	5310N	2835-06260	40	GGGG	180	23	04946E	5845N	2840-06524	40	GGGG	185	19		
05338E	3439N	2830-06030	0	GGGG	175	36	04945E	4021N	2834-06240	10	GGGG	179	32		
05335E	5011N	2816-06221	40	PPFP	179	25	04934E	4731N	2836-06332	0	GG G	181	27		
05334E	4308N	2814-06125	100	FFFF	177	30	04932E	4726N	2818-06342	70	GGFF	181	27		
05333E	3856N	2831-06073	10	FFGG	176	33	04923E	5020N	2837-06381	10	GGGG	182	25		
05313E	4558N	2815-06174	70	GGGG	178	28	04919E	3439N	2833-06200	0	GGGF	178	36		
05312E	3313N	2830-06032	0	GGGG	175	37	04915E	3856N	2834-06243	10	GGGG	179	33		
05310E	5721N	2837-06361	10	GGGG	182	20	04901E	4506N	2836-06334	10	GF G	181	28		
05303E	4853N	2834-06213	0	GGGG	179	26	04857E	4601N	2818-06344	60	PPFP	181	28		
05256E	5434N	2836-06311	30	GGGG	181	22	04853E	3313N	2833-06203	0	GGGG	178	37		
05257E	4847N	2816-06223	10	GGG	179	26	04851E	5731N	2840-06531	60	GGGG	185	20		
05256E	5146N	2835-06262	20	GGGG	180	24	04849E	4149N	2835-06292	90	GGGG	180	31		

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
IMAGE QUALITY BLANKS=BAND NOT AVAILABLE. G = GOOD. P = POOR. F = FAIR.

22:07 JUN 27, '77

LANDSAT-2
COORDINATE LISTING
FOR NNN=US
FROM 05/01/77 TO 05/31/77

PAGE 0100

PRINCIPAL PT. OF IMAGE	OBSERVATION ID	CC %	QUALITY RBV MSS 12345678	ORBIT PATH NUMBER	FRAME ROW NUMBER	PRINCIPAL PT. OF IMAGE	OBSERVATION ID	CC %	QUALITY RBV MSS 12345678	ORBIT PATH NUMBER	FRAME ROW NUMBER	
LONG	LAT					LONG	LAT					
04847E	3730N	2834-06245	20	GGGG	179	04613E	2853N	2834-06272	90	FGGG	179	40
04845E	4855N	2837-06384	10	GGGG	182	04608E	4605N	2838-06451	70	GGGG	183	28
04828E	4441N	2836-06341	70	GG G	181	04606E	4601N	2820-06461	10	GGGG	183	28
04827E	3147N	2833-06205	10	FGGG	178	04602E	3315N	2835-06315	60	GGGG	180	37
04824E	4435N	2818-06351	40	FFFF	181	04558E	4149N	2837-06404	30	GGGG	182	31
04820E	3605N	2834-06252	30	GGGG	179	04554E	4866N	2839-06500	10	FFFF	184	26
04819E	4024N	2835-06294	50	GFGG	180	04546E	4841N	2785-06525	50	GGGG	184	26
04809E	4730N	2837-06390	80	FGGG	182	04545E	5144N	2840-06545	30	FFGF	185	24
04804E	1719S	2825-05493	50	GGGG	170	04542E	5430N	2823-07004	10	GFGF	186	22
04803E	3021N	2833-06212	0	GGGF	178	04540E	5136N	2804-06564	0	GFGF	185	24
04756E	5016N	2820-06445	90	GGGG	183	04539E	5424N	2805-07014	100	GFGG	186	22
04756E	4315N	2836-06343	100	GG G	181	04539E	5132N	2786-06574	40	GGGG	185	24
04753E	3439N	2834-06254	10	GGGG	179	04538E	5418N	2787-07023	90	GG	186	22
04752E	4310N	2818-06353	50	FFFF	181	04535E	4440N	2638-06453	10	GGGG	183	29
04750E	3858N	2835-06301	50	GFGG	180	04532E	4436N	2820-06463	10	GGGG	183	29
04748E	6003N	2824-07044	10	FGGG	187	04527E	4023N	2837-06411	40	FFFF	182	32
04739E	2855N	2833-06214	10	GGGF	178	04519E	4730N	2839-06502	10	FFFF	184	27
04734E	4605N	2837-06393	70	GGGG	182	04505E	5020N	2840-06551	30	FFFF	185	25
04727E	3313N	2834-06261	10	GGGG	179	04504E	5553N	2824-07055	100	GGG	187	21
04725E	4149N	2836-06350	90	GGGG	181	04502E	4314N	2838-06460	10	GGGG	183	30
04719E	4855N	2838-06442	20	GGGG	183	04500E	5011N	2804-06571	0	GGGG	185	29
04719E	4851N	2820-06452	90	GGGG	183	04500E	4310N	2820-06477	30	GGGG	183	30
04703E	5131N	2785-06520	50	GGGG	184	04459E	5543N	2788-07075	90	GGGG	187	21
04701E	4440N	2837-06395	20	GGGG	182	04459E	5008N	2786-06580	40	FFFF	185	25
04701E	3147N	2834-06263	10	GGGG	179	04458E	3858N	2837-06413	40	G	182	33
04654E	4024N	2836-06352	90	GGGG	181	04457E	5305N	2823-07010	10	GGGG	186	23
04643E	4730N	2838-06444	80	GGGG	183	04454E	5301N	2805-07020	100	GFGG	186	23
04642E	4726N	2820-06454	50	GGGG	183	04453E	5244N	2787-07025	100	GFGG	186	23
04637E	3020N	2834-06270	80	GGGG	179	04444E	4605N	2839-06505	10	FFFF	184	28
04632E	5020N	2839-06493	30	FFFF	184	04431E	4149N	2838-06462	10	GGGG	183	31
04629E	4314N	2837-06402	40	GGGG	182	04429E	4145N	2820-06472	30	GGGG	183	31
04628E	5309N	2840-06542	40	FFGF	185	04426E	4855N	2840-06554	10	GFGG	185	26
04625E	3858N	2836-06355	60	GGGG	181	04422E	4846N	2804-06573	0	GGGF	185	26
04624E	5006N	2785-06522	90	GGGG	184	04421E	5705N	2789-07130	90	FFFF	188	20
04622E	5300N	2804-06562	10	GGGG	185	04420E	4843N	2786-06583	80	GPGF	185	26
04622E	5255N	2786-06571	50	FFG	185	04416E	5429N	2824-07062	100	FGGG	187	22

KEYS: CLOUD COVER % 0 TO 100 % CLOUD COVER.
IMAGE QUALITY BLANKS=BAND NOT AVAILABLE. G = GOOD. P = POOR. F = FAIR.

22:07 JUN 27, '77

LANDSAT-2
COORDINATE LISTING
FOR N9N-US
FROM 05/01/77 TO 05/31/77

PAGE 0101

PRINCIPAL PT. OF IMAGE		OBSERVATION ID	CC %	QUALITY RBV MSS 12345678	ORBIT PATH NUMBER	FRAME ROW NUMBER	PRINCIPAL PT. OF IMAGE		OBSERVATION ID	CC %	QUALITY RBV MSS 12345678	ORBIT PATH NUMBER	FRAME ROW NUMBER
LONG	LAT						LONG	LAT					
04415E	5141N	2823-07013	10	GGGG	186	24	04139E	4149N	2840-06574	60	FFF	185	31
04412E	5420N	2788-07081	90	GGFG	187	22	04131E	4851N	2824-07080	100	GGGF	187	26
04412E	5136N	2805-07023	90	GGFG	186	24	04126E	5429N	2826-07174	80	GGGF	189	22
04411E	5130N	2787-07032	80	GGGG	186	24	04119E	5418N	2790-07193	70	GGGF	189	22
04411E	4440N	2839-06511	30	FFFF	184	29	04116E	5128N	2789-07144	90	GGFG	188	24
04401E	4023N	2838-06465	10	GGGG	183	32	04113E	4436N	2823-07033	100	GGGG	186	29
04359E	4020N	2820-06475	10	PPPP	183	32	04109E	5842N	2828-07275	70	GGGG	191	19
04350E	4730N	2840-06560	10	FFGG	185	27	04057E	5829N	2792-07294	0	GGFG	191	19
04339E	4315N	2839-06514	50	FFFF	184	30	04055E	4726N	2824-07082	90	GGGG	187	27
04335E	5016N	2823-07015	60	GGGG	186	25	04049E	5554N	2827-07230	90	GGFF	190	21
04332E	5304N	2824-07064	100	GGGG	187	23	04041E	5305N	2826-07181	60	FFFF	189	23
04332E	5012N	2805-07025	80	GGGG	186	25	04035E	5254N	2790-07200	90	GGGF	189	23
04332E	3858N	2838-06471	20	GGGG	183	33	04019E	4600N	2824-07085	80	GGGG	187	28
04331E	5006N	2787-07034	100	GGGG	186	25	04015E	5718N	2828-07281	60	GGGG	191	20
04330E	5541N	2789-07133	90	GGFG	188	24	04004E	5705N	2792-07301	10	GGFG	191	20
04330E	3854N	2820-06481	20	FFFF	183	33	04002E	5430N	2827-07232	60	GGFG	190	22
04327E	5256N	2788-07084	100	GGGG	187	23	03959E	5141N	2826-07183	90	GGGG	189	24
04325E	3846N	2784-06500	10	GGGG	183	33	03953E	5421N	2791-07251	70	G	190	22
04324E	3850N	2802-06491	0	FFFF	183	33	03953E	5130N	2790-07202	90	GGGG	189	24
04316E	4605N	2840-06563	20	FFGG	185	28	03946E	4436N	2824-07091	70	GGGG	187	29
04307E	4149N	2839-06520	60	FFFF	184	31	03942E	5842N	2829-07333	40	GGGG	192	19
04304E	3732N	2838-06474	10	GGGG	183	34	03932E	5830N	2793-07352	10	GGGG	192	19
04256E	5705N	2790-07184	90	GGGG	189	20	03925E	5554N	2828-07284	30	FGGG	191	21
04250E	5140N	2824-07071	90	G	187	24	03919E	5017N	2826-07190	90	FGGG	189	25
04249E	5131N	2788-07090	100	GGGG	187	24	03917E	5306N	2827-07235	50	GGGG	190	23
04243E	5417N	2789-07135	90	GGFG	188	22	03914E	5542N	2792-07303	40	GGGG	191	21
04243E	4440N	2840-06565	30	FFGG	185	29	03914E	5006N	2790-07205	90	GGGG	189	25
04237E	3606N	2838-06480	0	FGGG	183	35	03914E	4310N	2824-07094	60	GGGG	187	30
04236E	4023N	2839-06523	30	FFFF	184	32	03909E	5257N	2791-07254	30	FGGF	190	23
04213E	5553N	2826-07172	90	GGGG	189	21	03908E	6001N	2812-07394	0	GGGG	193	18
04210E	5016N	2824-07073	90	G	187	25	03903E	5954N	2794-07404	90	PPPP	193	18
04210E	3440N	2838-06483	0	GGGG	183	36	03848E	5718N	2829-07335	70	GGGG	192	20
04206E	5542N	2790-07191	90	GGGG	189	21	03841E	4852N	2826-07192	90	GGGG	189	26
04205E	5007N	2788-07093	90	GGGG	187	25	03838E	5707N	2793-07355	0	GGGG	192	20
04158E	5253N	2789-07142	90	FFFF	188	23	03837E	5431N	2828-07250	40	GGGG	191	22
04139E	5718N	2827-07223	50	GGGG	190	20	03834E	5142N	2827-07241	70	GGGG	190	24

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
IMAGE QUALITY BLANKS=BAND NOT AVAILABLE. G = GOOD. P = POOR. F = FAIR.

22:07 JUN 27, 77

LANDSAT-2
COORDINATE LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0102

PRINCIPAL PT. OF IMAGE		OBSERVATION ID	CC %	QUALITY RBV MSS 12345678	ORBIT PATH NUMBER	FRAME ROW NUMBER	PRINCIPAL PT. OF IMAGE		OBSERVATION ID	CC %	QUALITY RBV MSS 12345678	ORBIT PATH NUMBER	FRAME ROW NUMBER
LONG	LAT						LONG	LAT					
03827E	5133N	2791-07260	30	FGGG	190	24	03541E	4842N	2792-07324	90	GGFG	191	26
03826E	5419N	2792-07310	90	GGGF	191	22	03537E	6245N	2816-08014	90	GGGG	197	16
03810E	5838N	2812-07401	0	GGGG	193	19	03534E	5122N	2793-07373	0	GGGG	192	24
03806E	5832N	2794-07410	90	FFGF	193	19	03530E	4437N	2827-07262	50	GGGG	190	29
03804E	4727N	2826-07195	90	FGGG	189	27	03526E	5842N	2832-07503	70	GGGG	195	19
03757E	5554N	2829-07342	80	GFGG	192	21	03514E	4728N	2828-07311	0	GGGG	191	27
03754E	5018N	2827-07244	80	GGGG	190	25	03503E	5555N	2831-07454	10	GGGG	194	21
03753E	5307N	2828-07293	80	PFGG	191	23	03501E	5018N	2829-07360	0	GGGG	192	25
03748E	5543N	2793-07361	10	GGGG	192	21	03454E	5304N	2812-07415	10	GGGG	193	23
03747E	5009N	2791-07263	30	FFGG	190	25	03454E	5008N	2793-07375	10	GGGG	192	25
03745E	6084N	2831-07443	40	GGGG	194	18	03449E	6000N	2015-07565	10	GGGG	196	18
03742E	5255N	2792-07312	90	GGGF	191	23	03445E	5984N	2797-07574	100	FFFF	196	18
03729E	4601N	2826-07201	90	GGGG	189	28	03439E	4603N	2828-07313	0	GFGG	191	28
03718E	5715N	2812-07403	0	GGGG	193	20	03432E	5719N	2832-07510	50	GGGG	195	20
03715E	4853N	2827-07250	80	GGGG	190	26	03430E	6122N	2816-08020	90	GGGG	197	17
03713E	5709N	2794-07413	90	GGFG	193	20	03423E	4854N	2829-07362	0	FGGG	192	26
03710E	5142N	2828-07295	30	GGGG	191	24	03415E	5431N	2831-07461	0	GFGG	194	22
03709E	5421N	2829-07344	30	GGGG	192	22	03412E	5139N	2812-07421	10	GGGG	193	24
03709E	4844N	2791-07265	90	GFGG	190	26	03406E	4428N	2828-07320	10	FFFF	191	29
03701E	5420N	2793-07364	10	FGGG	192	22	03406E	3145N	2825-07184	10	GGGG	188	32
03659E	5131N	2792-07315	90	FGGF	191	24	03351E	5837N	2815-07571	50	GGGG	196	19
03656E	4436N	2826-07204	60	GGGG	189	29	03349E	5831N	2797-07581	100	PGGG	196	19
03647E	5841N	2831-07445	20	GGGG	194	19	03347E	4728N	2829-07365	0	FGGG	192	27
03638E	4728N	2827-07253	70	GGGG	190	27	03340E	5555N	2832-07512	20	GGGG	195	21
03636E	5018N	2828-07302	10	FFGG	191	25	03333E	4312N	2828-07322	30	FFFF	191	30
03628E	5552N	2812-07410	0	GGGG	193	21	03332E	5015N	2812-07424	70	GGGG	193	25
03624E	5307N	2829-07351	10	GGGF	192	23	03331E	5306N	2831-07463	0	GGGG	194	23
03623E	5545N	2794-07415	90	GGGG	193	21	03328E	6001N	2816-08023	90	GGGG	197	18
03619E	5007N	2792-07321	90	GGGG	191	25	03312E	4603N	2829-07371	0	GGGG	192	28
03616E	5256N	2793-07370	10	GGGG	192	23	03304E	5718N	2833-07564	0	PPPP	196	20
03603E	4603N	2827-07255	60	GGGG	190	28	03257E	5714N	2815-07574	90	GGGG	196	20
03553E	5718N	2831-07452	0	GGGG	194	20	03255E	5707N	2797-07583	100	FFFF	196	20
03551E	6123N	2815-07562	10	GGGG	196	17	03254E	4850N	2812-07430	100	GGGG	193	26
03551E	4853N	2828-07304	10	FGGG	191	26	03252E	5431N	2832-07515	10	GFGG	195	22
03547E	6116N	2797-07572	90	JGGG	196	17	03248E	5142N	2831-07470	0	GGGG	194	24
03541E	5143N	2829-07352	10	GFGG	192	24	03239E	4428N	2829-07374	30	GGGG	192	29

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
IMAGE QUALITY BLANKS=BAD NOT AVAILABLE. G = GOOD. P = POOR. F = FAIR.

22107 JUN 27, 177

LANDSAT-2
COORDINATE LISTING
FOR NNN-US
FROM 05/01/77 TO 05/31/77

PAGE 0103

PRINCIPAL PT. OF IMAGE	LONG	LAT	OBSERVATION ID	CC %	QUALITY RBV MSS 12345678	ORBIT PATH NUMBER	FRAME ROW NUMBER	PRINCIPAL PT. OF IMAGE	LONG	LAT	OBSERVATION ID	CC %	QUALITY RBV MSS 12345678	ORBIT PATH NUMBER	FRAME ROW NUMBER
03230E	8838N	2816-08025	90	GGGG	197	19	02846E	5721N	2836-08134	30	FGGG	199	20		
03218E	4725N	2812-07433	100	GGGG	193	27	02840E	4852N	2833-07591	10	GGGG	196	26		
03213E	8555N	2833-07570	0	FFFF	196	21	02836E	5423N	2835-08085	10	GGG	198	22		
03208E	8307N	2832-07521	10	GGGG	195	23	02835E	4849N	2815-08001	60	GGGG	196	26		
03208E	5018N	2831-07472	0	GGGG	194	25	02834E	4843N	2797-08010	30	FGGG	196	26		
03207E	8550N	2815-07580	90	GGGG	196	21	02831E	5189N	2816-08050	100	GGGG	197	24		
03208E	5544N	2797-07590	90	FGGG	196	21	02803E	4727N	2833-07593	10	GGGG	196	27		
03142E	6130N	2836-08123	90	GGGG	199	17	02759E	4725N	2815-08003	80	GGGG	196	27		
03136E	5714N	2816-08032	70	GGGG	197	20	02756E	5556N	2836-08141	30	FGGG	199	21		
03130E	4853N	2831-07475	0	GFGG	194	26	02751E	5309N	2835-08091	0	GGG	198	23		
03126E	5431N	2833-07573	0	FFFF	196	22	02751E	5015N	2816-08052	100	GGGG	197	25		
03126E	5143N	2832-07524	10	GGGG	195	24	02748E	6006N	2838-08241	90	GGGG	201	18		
03120E	5426N	2815-07583	80	GGGG	196	22	02729E	4602N	2833-08000	10	FGGG	196	28		
03118E	5421N	2797-07592	50	FGGG	196	22	02724E	4600N	2815-08010	100	GGGG	196	28		
03053E	4728N	2831-07481	0	GGGG	194	27	02723E	6130N	2839-08293	80	FFFF	202	17		
03046E	5018N	2832-07530	30	GGGG	195	25	02713E	4850N	2816-08055	70	GGGG	197	26		
03045E	5551N	2816-08034	80	GGGG	197	21	02708E	5145N	2835-08094	10	GGG	199	24		
03041E	5307N	2833-07575	0	GGGG	196	23	02655E	4437N	2833-08002	10	GGGG	196	29		
03039E	6007N	2836-08125	90	FGGG	199	18	02650E	5843N	2838-08244	90	GGGG	201	19		
03038E	5302N	2815-07585	80	GGGG	196	23	02642E	5837N	2820-08254	90	GGGG	201	19		
03034E	5257N	2797-07595	30	PGGG	196	23	02636E	5828N	2784-08273	90	GGGG	201	19		
03018E	4603N	2831-07484	0	GGGG	194	28	02628E	5020N	2835-08100	10	GGG	198	25		
03007E	4853N	2832-07533	20	GGGG	195	26	02623E	5309N	2836-08150	20	FGGG	199	23		
02958E	5427N	2816-08041	90	GGGG	197	22	02621E	6007N	2839-08295	30	FFFF	202	18		
02958E	5142N	2833-07582	10	GGGG	196	24	02556E	5720N	2838-08250	90	GGGG	201	20		
02958E	5138N	2815-07592	80	GGGG	196	24	02550E	4855N	2835-08103	10	GGG	198	26		
02958E	5132N	2797-08001	20	GGGG	196	24	02549E	5714N	2820-08260	90	GGGG	201	20		
02941E	5844N	2836-08132	30	FGGG	199	19	02543E	5703N	2784-08275	90	GGGG	201	20		
02930E	4728N	2832-07535	10	GGGG	195	27	02541E	5144N	2836-08152	10	FGGG	199	24		
02924E	5557N	2835-08082	10	GGGG	198	21	02522E	5844N	2839-08302	20	FFFF	202	19		
02918E	5017N	2833-07584	20	GGGG	196	25	02516E	5838N	2821-08312	90	P P	202	19		
02914E	5304N	2816-08043	100	GGGG	197	23	02512E	5828N	2785-08331	100	FFFF	202	19		
02913E	5014N	2815-07594	40	GGGG	196	25	02505E	5556N	2838-08253	90	PPPP	201	21		
02912E	5008N	2797-08005	30	FGGG	196	25	02500E	5020N	2836-08155	10	PGGG	199	25		
02858E	4603N	2832-07542	10	GGGG	195	28	02458E	5550N	2820-08263	90	GGGG	201	21		
02851E	6129N	2838-08235	90	GGGG	201	17	02456E	6007N	2840-08353	80	GG G	203	18		

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
IMAGE QUALITY BLANKS=BAD NOT AVAILABLE. G = GOOD. P = POOR. F = FAIR.

22107 JUN 27, 77

LANDSAT-2
COORDINATE LISTING
* FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0104

PRINCIPAL PT. OF IMAGE	OBSERVATION ID	CC %	QUALITY RBV MSS 12345678	ORBIT PATH NUMBER	FRAME ROW NUMBER	PRINCIPAL PT. OF IMAGE	OBSERVATION ID	CC %	QUALITY RBV MSS 12345678	ORBIT PATH NUMBER	FRAME ROW NUMBER
LONG LAT						LONG LAT					
02453E 5540N	2784-08282	80	GGGG	201	21	02125E 5433N	2840-08371	80	GGGG	203	22
02428E 5720N	2839-08304	40	PPPP	202	20	02125E 4849N	2820-08283	10	GGGG	201	26
02423E 5714N	2821-08314	80	P P	202	20	02121E 4839N	2784-08302	20	GGGG	201	26
02422E 4855N	2836-08161	30	PPPP	199	26	02114E 5419N	2804-08391	30	FFFG	203	22
02419E 5705N	2785-08333	90	FFFF	202	20	02113E 5416N	2786-08400	90	FFFG	203	22
02414E 5433N	2838-08255	90	PPFF	201	22	02055E 4729N	2838-08280	90	GGGG	201	27
02410E 5426N	2820-08265	90	GGGG	201	22	02041E 5562N	2823-08433	70	GGGG	204	21
02408E 5416N	2784-08284	70	GGGG	201	22	02040E 5309N	2840-08374	60	GGGG	203	23
02358E 5844N	2840-08360	80	FGFG	203	19	02037E 5548N	2805-08443	90	GGGG	204	21
02344E 4730N	2836-08164	50	PPP	199	27	02034E 5541N	2787-08452	30	FFGF	204	21
02337E 5556N	2839-08311	10	PPFF	202	21	01954E 5428N	2823-08435	70	GGGG	204	22
02333E 5308N	2838-08262	90	GGGG	201	23	01950E 6812N	2831-09251	80	GGFF	212	12
02328E 5552N	2821-08321	90	P P	202	21	01947E 5417N	2787-08455	30	GGGG	204	22
02329E 5542N	2785-08340	80	GGGG	202	21	01909E 5304N	2823-08442	60	GGGG	204	23
02325E 5303N	2820-08272	80	GGGG	201	23	01903E 5253N	2787-08461	10	FGGF	204	23
02321E 5252N	2784-08291	70	GGGG	201	23	00936E 5844N	2832-09335	100	GGGG	213	19
02303E 5721N	2840-08362	80	FGFF	203	20	00842E 5720N	2832-09341	90	GGGG	213	20
02250E 5703N	2786-08391	90	PPPP	203	20	00751E 5557N	2832-09344	90	GGGG	213	21
02250E 5144N	2838-08264	90	GGGG	201	24	00715E 5721N	2833-0939E	90	GGGG	214	20
02249E 5432N	2839-08313	50	PPPP	202	22	00704E 5483N	2832-09350	20	GGGG	213	22
02248E 5428N	2821-08323	90	P P	202	22	00624E 5557N	2833-09402	80	GGGG	214	21
02248E 5139N	2820-08274	20	GGGG	201	24	00619E 5309N	2832-09353	40	GGGG	213	23
02241E 5418N	2785-08342	50	PPPP	202	22	00616E 6006N	2835-09503	90	GGGG	216	18
02239E 5128N	2784-08293	40	GGGG	201	24	00537E 5433N	2833-09404	90	GGGG	214	22
02226E 5839N	2823-08424	100	GGGG	204	19	00518E 5843N	2835-09505	100	GGGG	216	19
02213E 5557N	2840-08365	70	GGFF	203	21	00452E 5310N	2833-09411	100	GGGG	214	23
02210E 5019N	2838-08271	90	FFFF	201	25	00424E 5720N	2835-09512	100	GGGG	216	20
02203E 5014N	2820-08281	70	GGGG	201	25	00410E 5145N	2833-09413	100	GGGG	214	24
02201E 5539N	2786-08394	90	PPFF	203	21	00355E 5843N	2836-09563	70	GGG	217	19
02200E 5544N	2804-08385	20	GGGG	203	21	00333E 5556N	2835-09514	90	GGGG	216	21
02199E 5003N	2784-08300	50	GGGG	201	25	00300E 5720N	2836-09570	70	GGG	217	20
02199E 6930N	2831-09245	80	FFF	212	11	00245E 5432N	2835-09521	60	GGGP	216	22
02192E 5716N	2823-08430	80	GGGG	204	20	00209E 5556N	2836-09572	80	GGG	217	21
02188E 4854N	2838-08273	80	PPPP	201	26	00200E 5308N	2835-09523	20	GGGG	216	23
02127E 5711N	2805-08440	90	FGGG	204	20	00121E 5432N	2836-09575	90	GGG	217	22
02125E 5704N	2787-08450	80	G FG	204	20	00101E 5846N	2838-10075	90	GGGG	219	19

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
IMAGE QUALITY BLANKS=BAD NOT AVAILABLE. G = GOOD. P = POOR. F = FAIR.

22107 JUN 27, 77

LANDSAT-2
COORDINATE LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0105

PRINCIPAL PT. OF IMAGE	OBSERVATION ID	CC %	QUALITY RBY MSS 12345678	ORBIT PATH NUMBER	FRAME ROW NUMBER	PRINCIPAL PT. OF IMAGE	OBSERVATION ID	CC %	QUALITY RBY MSS 12345678	ORBIT PATH NUMBER	FRAME ROW NUMBER
LONG	LAT					LONG	LAT				
00038E	5308N	2836-09581	70	GGG	217	04847W	4884N	2833-13090	80	GGG	250
00038E	5438N	2831-09351	10	FGGG	212	04853W	5163N	2834-13135	70	GGG	251
00018E	6132N	2840-10182	60	GGGG	221	04924W	4729N	2833-13092	60	GGGG	250
00008E	3313N	2131-09354	60	GGGG	212	04933W	5018N	2834-13141	30	FGGG	251
00007E	5723N	2838-10082	90	GGGG	219	04928W	5309N	2835-13190	90	GGGG	1
00016W	3147N	2831-09360	100	GGGG	212	04959W	4644N	2833-13095	60	GGGG	250
00022W	5846N	2839-10133	70	PPPP	220	05012W	4863N	2834-13144	30	GGGG	251
00041W	3020N	2831-09363	100	GGGG	212	05020W	5165N	2835-13193	90	GGGG	1
00043W	5559N	2838-10084	80	GGGG	219	05032W	4428N	2833-13101	40	GGGG	250
00050W	6010N	2840-10185	90	GGGF	221	05048W	4728N	2834-13150	30	GGGG	251
00106W	2854N	2831-09365	50	GGGG	212	05100W	5021N	2835-13195	90	GGGG	1
00117W	5723N	2839-10140	50	FFPP	220	05101W	5309N	2834-13244	70	GGGG	2
00131W	5435N	2838-10091	90	GGGG	219	05104W	4313N	2833-13104	20	GGGG	250
00206W	5000N	2339-10142	60	FFPP	220	05123W	4604N	2834-13153	70	FGGG	251
00216W	5310N	2838-10093	90	GGGG	219	05135W	4167N	2833-13110	30	GGGG	250
00233W	7936N	2836-13160	0	GGGG	3	05138W	4864N	2835-13202	90	GGGG	1
00243W	5723N	2840-10194	100	FGGF	221	05142W	5434N	2837-13300	80	GGGG	3
00258W	5146N	2838-10100	100	GGGG	219	05144W	5145N	2836-13251	90	GGGG	2
00334W	5559N	2840-10200	90	GFFF	221	05156W	4428N	2834-13155	90	GGGG	251
00338W	5021N	2838-10102	90	GGGG	219	05215W	4782N	2835-13204	70	GGGG	1
00348W	6006N	2824-10311	100	G/0G	223	05224W	5020N	2836-13253	90	GGGG	2
00422W	5435N	2840-10203	80	GGFF	221	05227W	5309N	2837-13302	80	GFFF	3
00445W	5841N	2824-10314	90	GGGG	223	05229W	4313N	2834-13162	70	GGGG	251
00507W	5311N	2840-10205	70	FFFG	221	05250W	4606N	2835-13211	30	GGGG	1
00516W	6004N	2525-10365	60	GFFF	224	05300W	4167N	2834-13164	80	GGGG	251
00538W	5718N	2824-10320	70	GGGG	223	05302W	4865N	2836-13260	90	GGGG	2
00550W	5146N	2840-10212	60	FFFG	221	05308W	5433N	2838-13354	60	GGGF	4
00613W	5842N	2825-10372	10	GGGF	224	05309W	5145N	2837-13305	80	GFGG	3
00706W	5718N	2825-10374	60	GGGF	224	05323W	4440N	2835-13213	50	GGGG	1
00717W	5431N	2824-10325	60	GGGF	223	05339W	4311N	2836-13262	90	GGGG	2
00809W	7937N	2840-13384	10	GGGG	7	05348W	5557N	2839-13410	100	F	5
01434W	7934N	2826-14022	0	GGGG	11	05349W	5021N	2837-13311	70	GGGG	3
02335W	7049N	2828-12335	10	FGFG	245	05353W	5309N	2838-13360	80	FFGG	4
02839W	6932N	2828-12342	10	GGFG	245	05354W	4315N	2835-13220	20	GGGG	1
04730W	5143N	2833-13081	90	GGGG	250	05414W	4606N	2836-13265	60	GGGG	2
04809W	5018N	2833-13083	90	GGGG	250	05425W	4150N	2835-13222	10	GGGG	1

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.

IMAGE QUALITY BLANKS=BAND NOT AVAILABLE. G = GOOD. P = POOR. F = FAIR.

22:07 JUN 27, 77

LANDSAT-2
COORDINATE LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0106

PRINCIPAL PT. OF IMAGE	OBSERVATION ID	CC %	QUALITY RBV MSS	ORBIT PATH NUMBER	FRAME ROW NUMBER	PRINCIPAL PT. OF IMAGE	OBSERVATION ID	CC %	QUALITY RBV MSS	ORBIT PATH NUMBER	FRAME ROW NUMBER
LONG LAT			12345678			LONG LAT			12345678		
05428W 4856N	2837-13314	70	GFGG	3	26	05934W 5026N	2841-13540	10	GGGG	7	25
05435W 5434N	2839-13412	90	GG G	5	22	05938W 4316N	2839-13444	100	GGFG	5	30
05436W 5145N	2838-13363	80	FGGF	4	24	05957W 4606N	2840-13493	80	GGGG	6	28
05447W 4441N	2836-13271	20	FGGG	2	29	06009W 4150N	2839-13451	50	GGGG	5	31
05505W 4731N	2837-13320	80	FFFG	3	27	06012W 4856N	2841-13542	10	GGGG	7	26
05512W 5558N	2840-13464	100	FGGG	6	21	06031W 4441N	2840-13500	60	FGFG	6	29
05516W 5020N	2838-13365	80	GGFG	4	25	06049W 4731N	2841-13545	40	GGGG	7	27
05519W 4315N	2836-13274	10	GGGG	2	30	06103W 4315N	2840-13502	70	GGGG	6	30
05521W 5310N	2839-13415	90	GG G	5	23	06124W 4606N	2841-13551	30	GGGG	7	28
05540W 4606N	2837-13323	80	FGGG	3	28	06126W 1725N	2435-13253	10	GGGG	1	48
05547W 5722N	2841-13515	90	GGGG	7	20	06134W 4150N	2840-13505	80	GGGG	6	31
05551W 4150N	2836-13280	10	GGGG	2	31	06157W 4440N	2841-13554	10	GGGG	7	29
05554W 4856N	2838-13372	70	FGGF	4	26	06230W 4315N	2841-13560	10	GGGG	7	30
05600W 5434N	2840-13470	90	FGGF	6	22	06301W 4149N	2841-13563	10	GGGG	7	31
05603W 5145N	2833-13421	90	GGGG	5	24	06423W 8015N	2830-17512	20	FGGG	52	1
05614W 4440N	2837-13325	80	FGGG	3	29	06434W 4852N	2826-14122	10	FGGG	10	26
05630W 4731N	2838-13374	70	GFGG	4	27	06438W 5147N	2845-14162	90	FGGG	11	24
05639W 5558N	2841-13522	90	GGGG	7	21	06439W 5142N	2827-14172	90	G	11	28
05644W 5021N	2839-13424	90	GGGG	5	25	06518W 5022N	2845-14164	90	FGGG	11	25
05645W 5309N	2840-13473	80	FGGG	6	23	06521W 5017N	2827-14174	90	GGGG	11	25
05646W 4315N	2837-13332	80	GFGG	3	30	06534W 7933N	2844-17280	30	GGGG	48	1
05706W 4605N	2838-13381	40	GGGG	4	28	06556W 4857N	2845-14171	90	FGG	11	26
05716W 4150N	2837-13334	70	FFGG	3	31	06600W 4852N	2827-14181	90	GGGG	11	26
05722W 4856N	2839-13430	90	GGGG	5	26	06615W 7933N	2826-17290	20	GGFG	47	2
05727W 5434N	2841-13524	80	GGGG	7	22	06645W 5020N	2846-14222	80	GGGG	12	25
05727W 5145N	2840-13475	60	FGGF	6	24	06646W 5018N	2828-14232	80	GGGG	12	25
05740W 4440N	2838-13383	10	FFFF	4	29	06657W 7939N	2845-17334	40	GGGG	45	1
05758W 4730N	2839-13433	100	GGGG	5	27	06722W 4147N	2826-14143	40	FGGG	10	31
05808W 5020N	2840-13482	90	FGGF	6	25	06724W 4855N	2846-14225	90	GGGG	12	26
05812W 4315N	2838-13390	40	GFGG	4	30	06725W 4853N	2828-14235	20	FGFF	12	26
05832W 4606N	2839-13435	90	GGGG	5	28	06739W 7924N	2827-17344	10	GGGG	48	2
05843W 4149N	2838-13392	80	FGGG	4	31	06752W 4021N	2826-14146	70	GGGG	10	32
05846W 4855N	2840-13484	90	FGGG	6	26	06811W 5020N	2847-14280	10	GGGG	13	25
05854W 5145N	2841-13533	20	GGGG	7	24	06827W 3856N	2826-14552	30	GGGG	10	33
05904W 4441N	2839-13442	100	GGGG	5	29	06849W 4855N	2847-14283	0	GGGG	13	26
05922W 4731N	2840-13491	90	FFFG	6	27	06853W 4853N	2829-14283	10	GGGG	13	26

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
 IMAGE QUALITY BLANKS=BLAND NOT AVAILABLE. G = GOOD. P = POOR. F = FAIR.

22107 JUN 27, 177

LANDSAT-2
COORDINATE LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0107

PRINCIPAL PT. OF IMAGE	LONG	LAT	OBSERVATION ID	CC %	QUALITY RBV MSS	ORBIT PATH NUMBER	FRAME ROW NUMBER	PRINCIPAL PT. OF IMAGE	LONG	LAT	OBSERVATION ID	CC %	QUALITY RBV MSS	ORBIT PATH NUMBER	FRAME ROW NUMBER
06912W	7934N	2828-17402	40	GGFG	50	2	07418W	2312N	2845-14244	20	GGGG	11	44		
07012W	3734N	2845-14203	0	GGGG	11	34	07421W	2309N	2827-14254	40	GGGG	11	44		
07015W	3729N	2827-14213	10	GGGF	11	34	07427W	7434N	2833-16273	20	GGGF	36	7		
07028W	7935N	2829-17460	60	GGGG	51	2	07436W	2728N	2846-14290	20	GG	12	41		
07039W	3608N	2845-14205	10	GGGG	11	35	07437W	2728N	2828-14300	20	GG	12	41		
07042W	3604N	2827-14215	10	GGGG	11	35	07440W	2146N	2845-14250	90	GGGG	11	45		
07106W	3442N	2845-14212	10	GGGG	11	36	07443W	2142N	2827-14260	30	GGGG	11	45		
07109W	3438N	2827-14222	10	GGGF	11	36	07459W	2601N	2846-14293	10	GGGG	12	42		
07126W	2311N	2843-14131	80	GGGG	9	44	07500W	2601N	2828-14303	30	GGGG	12	42		
07131W	3315N	2845-14214	10	GGGG	11	37	07514W	3021N	2847-14335	10	GGGG	13	39		
07135W	3311N	2827-14224	20	GGFG	11	37	07516W	3020N	2829-14345	20	GGGG	13	39		
07143W	4854N	2831-14405	60	GGG	15	26	07522W	2434N	2846-14295	40	GGGG	12	43		
07145W	7934N	2830-17514	10	FFGG	51	2	07523W	2435N	2828-14305	30	GGGG	12	43		
07156W	3149N	2845-14221	10	GGGG	11	38	07538W	2854N	2847-14342	10	GGGG	13	40		
07200W	3145N	2827-14231	10	GGFG	11	38	07541W	2854N	2829-14352	10	FF	13	40		
07221W	3023N	2845-14223	10	GGGG	11	39	07545W	2308N	2846-14302	90	GGGG	12	44		
07225W	3020N	2827-14233	10	GGGG	11	39	07546W	2309N	2828-14312	30	GGGG	12	44		
07232W	2439N	2846-14270	10	GGGG	12	36	07602W	2728N	2847-14344	30	GF	13	41		
07234W	2439N	2828-14280	90	GGGG	12	36	07604W	2727N	2829-14354	30	GGGG	13	41		
07245W	2858N	2845-14230	20	GGGG	11	40	07625W	2602N	2847-14351	20	GGGG	13	42		
07249W	2854N	2827-14240	10	GGGG	11	40	07628W	2602N	2829-14361	60	GGGG	13	42		
07258W	3314N	2846-14272	10	GGGG	12	37	07648W	2435N	2847-14353	30	GGGG	13	43		
07259W	3313N	2828-14282	40	FGGG	12	37	07650W	2436N	2829-14363	70	GGGG	13	43		
07309W	2732N	2845-14232	20	GGGG	11	41	07652W	7845N	2829-17462	30	GGGG	50	3		
07313W	2727N	2827-14242	10	GG	11	41	07711W	2309N	2847-14360	30	GGGG	13	44		
07319W	7935N	2831-17572	10	GGGG	53	2	07712W	2309N	2829-14370	40	GGGG	13	44		
07323W	3147N	2846-14275	10	GGGG	12	38	07753W	2602N	2830-14415	60	GGGG	14	42		
07325W	3146N	2828-14285	0	FFFF	12	38	07816W	2436N	2830-14421	50	GGGG	14	43		
07332W	2605N	2845-14235	30	GG	11	42	07838W	2309N	2830-14424	70	GGGG	14	44		
07336W	2601N	2827-14245	20	GGGG	11	42	07944W	7846N	2831-17575	10	GGGG	52	3		
07348W	3021N	2846-14281	10	GGGG	12	39	08004W	2309N	2831-14482	90	GGGG	15	44		
07349W	3020N	2828-14291	10	GGFG	12	39	08137W	7645N	2825-17243	50	GGFG	45	5		
07355W	2438N	2845-14241	30	GGGG	11	43	08222W	7748N	2829-17465	20	GGGG	50	4		
07359W	2435N	2827-14251	30	GGGG	11	43	08516W	7749N	2831-17581	10	GGGG	52	4		
07412W	2855N	2846-14284	10	GGGG	12	40	08547W	7434N	2841-17130	10	GGGG	44	7		
07414W	2854N	2828-14294	10	GGFG	12	40	08704W	7646N	2829-17471	10	GGGF	50	5		

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
IMAGE QUALITY BLANKS=BAND NOT AVAILABLE. G = GOOD. P = POOR. F = FAIR.

22107 JUN 27, 1977

LANDSAT-2
COORDINATE LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0108

PRINCIPAL PT. OF IMAGE	LONG	LAT	OBSERVATION ID	CC %	QUALITY RBV MSS 12345678	ORBIT PATH NUMBER	FRAME ROW NUMBER	PRINCIPAL PT. OF IMAGE	LONG	LAT	OBSERVATION ID	CC %	QUALITY RBV MSS 12345678	ORBIT PATH NUMBER	FRAME ROW NUMBER
08734W	5146N	2843-15481	10	PGFG	27	24	10616W	5145N	2838-17030	10	GGFG	40	24		
08814W	5021N	2843-15484	10	GGGG	27	25	10656W	5020N	2838-17033	10	GGFF	40	25		
08903W	5141N	2826-15545	90	GGGG	28	24	10658W	5309N	2839-17082	50	FGGG	41	23		
08942W	5022N	2844-15542	90	GGFG	28	25	10740W	5144N	2839-17084	10	GGGG	41	24		
08943W	5017N	2826-15552	90	GGGG	28	25	10820W	5020N	2839-17091	10	FFGG	41	25		
08947W	5306N	2827-16001	10	GGGG	29	23	10901W	8016N	2825-20492	50	GGGG	68	248		
08959W	7647N	2831-17584	10	GGGG	52	5	10945W	8017N	2844-20540	50	GGGG	66	248		
09006W	7436N	2844-17300	40	GFGG	47	7	10950W	5309N	2841-17194	0	F3GG	43	23		
09023W	7429N	2826-17310	10	GGGG	47	7	11020W	8015N	2826-20550	40	FGGG	84	1		
09030W	5141N	2827-16003	0	GGGG	29	24	11032W	5145N	2841-17200	0	GGGG	43	24		
09110W	5017N	2827-16010	0	GGGG	29	25	11113W	5020N	2841-17203	0	FGGG	43	25		
09157W	5142N	2828-16061	0	GFGG	30	24	11117W	5310N	2842-17252	10	FFGG	44	23		
09237W	5017N	2828-16064	10	GGGG	30	25	11145W	5722N	2844-17353	30	GGFG	46	20		
09654W	5018N	2831-16234	0	GGGG	33	25	11151W	8016N	2827-21004	10	PGGG	67	248		
09817W	2437N	2844-16015	40	FGGG	28	43	11157W	5434N	2843-17304	30	GGG	45	22		
09820W	5018N	2832-16292	20	GFGG	34	25	11159W	5145N	2842-17255	0	GGGG	44	24		
09820W	2435N	2826-16025	50	GGGG	28	43	11232W	8018N	2846-21053	30	GGGG	08	248		
09944W	2437N	2845-16073	30	GGFG	29	43	11236W	5558N	2844-17355	90	GGGG	46	21		
09947W	2434N	2827-16083	40	GGGG	29	43	11240W	5020N	2842-17261	10	GFGG	44	25		
10031W	5145N	2834-16402	100	GGGG	36	24	11242W	5309N	2843-17310	10	GGGG	45	23		
10111W	5021N	2834-16404	100	GGGG	36	25	11308W	8016N	2828-21062	30	FGGG	68	248		
10115W	5309N	2835-16453	10	GGGG	37	23	11323W	5434N	2844-17362	90	GGGG	46	22		
10157W	5145N	2835-16460	10	GGGG	37	24	11325W	5146N	2843-17313	10	GGGG	45	24		
10238W	5020N	2835-16462	70	GGGG	37	25	11326W	5429N	2826-17372	90	FGGG	46	22		
10310W	5721N	2838-17012	0	FFFF	40	20	11405W	5021N	2843-17315	50	GGG	45	25		
10322W	5146N	2836-16514	10	GGGG	38	24	11408W	5310N	2844-17364	100	GFGG	46	23		
10323W	5434N	2837-16563	10	GGGG	39	22	11408W	5016N	2825-17325	60	GGGG	45	25		
10401W	5557N	2838-17015	10	FFFF	40	21	11411W	5305N	2826-17374	50	GGGG	46	23		
10402W	5021N	2836-16520	10	GGGG	38	25	11451W	5145N	2844-17371	100	GGGG	46	24		
10407W	5309N	2837-16570	20	GGGG	39	23	11454W	5141N	2826-17381	10	FGGG	46	24		
10449W	5433N	2838-17021	10	FFFF	40	22	11504W	7935N	2824-20441	50	GGGG	80	2		
10450W	5144N	2837-16572	20	GGGG	39	24	11524W	3021N	2839-17150	10	GGGG	41	39		
10525W	5558N	2839-17073	80	GGGG	41	21	11531W	5021N	2844-17373	90	GGGG	46	25		
10530W	5020N	2837-16575	10	GGGG	39	25	11534W	5017N	2826-17383	10	FGGG	46	25		
10533W	5309N	2838-17024	30	GGFG	40	23	11536W	5306N	2827-17432	0	GGGG	47	23		
10612W	5434N	2839-17075	90	GGGF	41	22	11619W	5142N	2827-17435	10	GGGG	47	24		

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
IMAGE QUALITY BLANKS=BAD NOT AVAILABLE. G = GOOD. P = POOR. F = FAIR.

22:07 JUN 27, 1977

LANDSAT-2
COORDINATE LISTING
FOR NNN=US
FROM 05/01/77 TO 05/31/77

PAGE 0109

PRINCIPAL PT. OF IMAGE		OBSERVATION ID	CC %	QUALITY RBV MSS 12345678	ORBIT PATH NUMBER	FRAME ROW NUMBER	PRINCIPAL PT. OF IMAGE		OBSERVATION ID	CC %	QUALITY RBV MSS 12345678	ORBIT PATH NUMBER	FRAME ROW NUMBER
LONG	LAT						LONG	LAT					
11625W	7935N	2825-20495	40	GGGG	81	2	13543W	7540N	2824-20455	90	GGGG	80	6
11659W	5017N	2827-17441	0	GGGG	47	25	13656W	7651N	2846-21071	70	GGGG	85	5
11714W	7936N	2844-20543	10	GGGG	83	2	13659W	7541N	2825-20513	20	GGGG	81	6
11745W	7934N	2826-20553	70	FGGG	83	2	13711W	7647N	2828-21080	0	GGGF	85	5
11747W	5141N	2828-17493	90	FGGG	48	24	13717W	7209N	2837-20174	100	GGGG	75	9
11827W	5017N	2828-17495	70	GGGG	48	25	13810W	7544N	2844-20561	60	GGGG	83	6
11834W	7937N	2845-21001	20	GGGG	84	2	13824W	7540N	2826-20571	10	GGGG	83	6
11913W	7935N	2827-21011	30	FGGG	85	2	13845W	7209N	2838-20232	100	GGGG	76	9
11951W	5019N	2829-17553	20	GGGG	49	25	13910W	7431N	2824-20461	80	GGGG	80	7
12002W	7938N	2846-21055	50	GGGG	85	2	13934W	7544N	2845-21015	80	GGGF	84	6
12032W	7935N	2828-21065	10	GGGG	85	2	13936W	7053N	2837-20180	100	GGGG	75	10
12117W	5018N	2830-18012	20	GGGG	50	25	13952W	7541N	2827-21025	0	GGGF	84	6
12128W	7846N	2824-20443	60	GGGG	80	3	14009W	7209N	2839-20290	90	GGGF	77	9
12248W	7845N	2825-20501	60	FGGG	81	3	14029W	7431N	2825-20515	60	GGGG	81	7
12342W	7847N	2844-20545	10	GGGP	83	3	14102W	7545N	2846-21073	40	GGGG	85	6
12409W	7845N	2826-20555	20	GGGG	83	3	14113W	7540N	2828-21083	0	GGGG	85	6
12506W	7848N	2845-21004	40	GGGG	84	3	14135W	7209N	2840-20344	100	GGGG	78	9
12537W	7845N	2827-21013	30	GGGG	84	3	14140W	7434N	2844-20563	20	GGGG	83	7
12632W	7849N	2846-21062	80	GGGG	85	3	14152W	7431N	2826-20573	10	GGGG	83	7
12658W	7845N	2828-21071	10	GGGG	85	3	14209W	7318N	2824-20464	50	GGGG	80	8
12659W	7749N	2824-20450	80	GGGG	80	4	14302W	7210N	2841-20402	70	GGGF	79	9
12815W	7749N	2825-20504	50	FGGG	81	4	14305W	7435N	2845-21022	50	GGFF	84	7
12828W	6010N	2839-18493	60	FGGG	59	18	14320W	7432N	2827-21031	0	GGGG	84	7
12917W	7751N	2844-20552	70	GGGG	83	4	14331W	7318N	2825-20522	70	GGGG	81	8
12939W	7748N	2826-20562	20	GGGG	83	4	14433W	7436N	2846-21080	40	GGGF	85	7
13018W	6133N	2841-19002	70	GGGG	61	17	14441W	7431N	2828-21085	10	GGGG	85	7
13041W	7752N	2845-21010	80	GGGF	84	4	14442W	7322N	2844-20570	50	GGFG	82	8
13118W	5311N	2838-18455	30	GGGG	58	23	14445W	7204N	2824-20470	30	GGGG	80	9
13142W	7647N	2824-20452	50	GGGG	80	5	14453W	7319N	2826-20580	10	GGGG	83	8
13201W	5147N	2838-18462	40	GGGG	58	24	14607W	7323N	2845-21024	20	GGGG	84	8
13209W	7753N	2846-21064	90	GGGG	85	4	14609W	7204N	2825-20524	50	FGGG	81	9
13229W	7749N	2828-21074	0	GGGG	85	4	14621W	7319N	2827-21034	10	GGGG	84	8
13257W	7647N	2825-20510	40	FGGG	81	5	14721W	7208N	2844-20572	70	GGGG	82	9
13405W	7650N	2844-20554	80	GGGG	83	5	14731W	7204N	2826-20582	10	GGGG	82	9
13421W	7646N	2826-20564	10	GGGG	83	5	14736W	7324N	2846-21082	80	GGGF	85	8
13529W	7650N	2845-21013	80	FGGF	84	5	14742W	7319N	2828-21092	10	GGGF	84	8

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
IMAGE QUALITY BLANKS=BAD NOT AVAILABLE. G = GOOD. P = POOR. F = FAIR.

22:07 JUN 27, 1977

LANDSAT-2
COORDINATE LISTING
FOR NBN-JS
FROM 05/01/77 TO 05/31/77

PAGE 0110

PRINCIPAL PT. OF IMAGE	LAT	LONG	OBSERVATION ID	CC %	QUALITY RBV MSS 12345678	ORBIT PATH NUMBER	FRAME ROW NUMBER	PRINCIPAL PT. OF IMAGE	LAT	LONG	OBSERVATION ID	CC %	QUALITY RBV MSS 12345678	ORBIT PATH NUMBER	FRAME ROW NUMBER
14847N	7209N	2845-21031	70	FGGG	83	9	16530W	7052N	2837-22012	50	GGGG	93	10		
14859N	7205N	2827-21040	10	GGGG	84	9	16656W	7053N	2838-22070	80	GGGG	94	10		
15015N	7209N	2846-21085	60	GGGG	84	9	16900W	6935N	2838-22072	80	GGGG	94	11		
15020N	7205N	2828-21094	10	GGGG	84	9	17023W	6935N	2839-22130	50	GGGG	95	11		
15314N	7206N	2830-21211	0	GGGG	86	9	17050W	6816N	2838-22075	90	GGGG	94	12		
16147N	7208N	2836-21551	80	GGGG	93	9									

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
IMAGE QUALITY BLANKS=BAND NOT AVAILABLE. G = GOOD. P = POOR. F = FAIR.

APPENDIX

EXPLANATION OF OBSERVATION ID

The day after the 999th day of operation of LANDSAT 1, the first digit of the observation ID becomes a 5, signifying that the 1000th day of operation has been reached. The next three digits, which correspond to the count of days since launch, return to 000. On each day thereafter the count, as before, increases by one. The ID format for LANDSAT 1 is illustrated below:

1000 - hhmmss
--
--
1998 - hhmmss
1999 - hhmmss April 18, 1975
5000 - hhmmss April 19, 1975
5001 - hhmmss (Days since launch equal 1001)
--
--

The same general identification procedure will be used for LANDSAT 2 imagery. The day after the 999th day of operation of LANDSAT 2, the first digit of the observation ID becomes a 6, and the next three digits return to 000 as explained above. An illustration follows:

2000 - hhmmss
-- 0115
--
2999 - hhmmss
6000 - hhmmss
6001 - hhmmss (Days since launch equal 1001)
--
--

Key: hh = hours
 mm = minutes
 s = tens of seconds

22107 JUN 27, 177

LANDSAT-2
COORDINATE LISTING
FOR NON-US
FROM 05/01/77 TO 05/31/77

PAGE 0107

PRINCIPAL PT. OF IMAGE	LAT	LONG	OBSERVATION ID	CC %	QUALITY RBV MSS	ORBIT PATH NUMBER	FRAME ROW NUMBER	PRINCIPAL PT. OF IMAGE	LAT	LONG	OBSERVATION ID	CC %	QUALITY RBV MSS	ORBIT PATH NUMBER	FRAME ROW NUMBER
06912W	7934N	2828-17402	40	GGFG	50	2	07418W	2312N	2845-14244	20	GGGG	11	44		
07012W	3734N	2845-14203	0	GGGG	11	34	07421W	2309N	2827-14254	40	GGGG	11	44		
07015W	3729N	2827-14213	10	GGGF	11	34	07427W	7434N	2833-16273	20	GGGF	36	7		
07028W	7935N	2829-17460	60	GGGG	51	2	07436W	2728N	2846-14290	20	GG	12	41		
07039W	3608N	2845-14205	10	GGGG	11	35	07437W	2728N	2828-14300	20	GG	12	41		
07042W	3604N	2827-14215	10	GGGG	11	35	07440W	2146N	2845-14250	90	GGGG	11	45		
07106W	3442N	2845-14212	10	GGGG	11	36	07443W	2142N	2827-14260	30	GGGG	11	45		
07109W	3438N	2827-14222	10	GGGF	11	36	07459W	2601N	2846-14293	10	GGGG	12	42		
07126W	2311N	2843-14131	80	GGGG	9	44	07500W	2601N	2828-14303	30	GGGG	12	42		
07131W	3315N	2845-14214	10	GGGG	11	37	07514W	3021N	2847-14335	10	GGGG	13	39		
07135W	3311N	2827-14224	20	GGFG	11	37	07516W	3020N	2829-14345	20	GGGG	13	39		
07143W	4854N	2831-14405	60	GGG	15	26	07522W	2434N	2846-14295	40	GGGG	12	43		
07148W	7934N	2830-17514	10	FFGG	51	2	07523W	2435N	2828-14305	30	GGGG	12	43		
07156W	3149N	2845-14221	10	GGFG	11	38	07538W	2854N	2847-14342	10	GGGG	13	40		
07200W	3145N	2827-14231	10	GGFG	11	38	07541W	2854N	2829-14352	10	FF	13	40		
07221W	3023N	2845-14223	10	GGGG	11	39	07545W	2308N	2846-14302	90	GGGG	12	44		
07225W	3020N	2827-14233	10	GGGG	11	39	07546W	2309N	2828-14312	30	GGGG	12	44		
07232W	2439N	2846-14270	10	GGGG	12	36	07602W	2728N	2847-14344	30	GF	13	41		
07234W	2439N	2828-14280	90	GGGG	12	36	07604W	2727N	2829-14354	30	GGGG	13	41		
07245W	2858N	2845-14230	20	GGGG	11	40	07625W	2602N	2847-14351	20	GGGG	13	42		
07249W	2854N	2827-14240	10	GGGG	11	40	07628W	2602N	2829-14361	60	GGGG	13	42		
07258W	3314N	2846-14272	10	GGGG	12	37	07648W	2435N	2847-14353	30	GGGG	13	43		
07259W	3313N	2828-14282	40	FFGG	12	37	07650W	2436N	2829-14363	70	GGGG	13	43		
07309W	2732N	2845-14232	20	GGGG	11	41	07652W	7845N	2829-17462	30	GGGG	50	3		
07313W	2727N	2827-14242	10	GG	11	41	07711W	2309N	2847-14360	30	GGGG	13	44		
07319W	7935N	2831-17572	10	GGGG	53	2	07712W	2309N	2829-14370	40	GGGG	13	44		
07323W	3147N	2846-14275	10	GGGG	12	38	07753W	2602N	2830-14415	60	GGGG	14	42		
07325W	3146N	2828-14285	0	FFFF	12	38	07816W	2436N	2830-14421	50	GGGG	14	43		
07332W	2605N	2845-14235	30	GG	11	42	07838W	2309N	2830-14424	70	GGGG	14	44		
07336W	2601N	2827-14245	20	GGGG	11	42	07944W	7846N	2831-17575	10	GGGG	52	3		
07348W	3021N	2846-14281	10	GGGG	12	39	08004W	2309N	2831-14482	90	GGGG	15	44		
07349W	3020N	2828-14291	10	GGFG	12	39	08137W	7645N	2825-17243	50	FFGG	45	5		
07355W	2438N	2845-14241	30	GGGG	11	43	08222W	7748N	2829-17465	20	GGGG	50	4		
07359W	2435N	2827-14251	30	GGGG	11	43	08516W	7749N	2831-17581	10	GGGG	52	4		
07412W	2855N	2846-14284	10	GGGG	12	40	08547W	7434N	2841-17130	10	GGGG	44	7		
07414W	2854N	2828-14294	10	GGFG	12	40	08704W	7646N	2829-17471	10	GGGF	50	5		

KEYS: CLOUD COVER % 0 TO 100 = % CLOUD COVER.
IMAGE QUALITY BLANKS=BAND NOT AVAILABLE. G = GOOD. P = POOR. F = FAIR.